V97 — 6

JUN 49

CA. 8267 C-267 L.T. 11-16-37
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RT. # 1, BOX 269
WALNUT CREEK, CALIF.

PETERS
POLICE MATCH

Head Start for High Scores

Without *maximum accuracy* in your ammunition . . . without *perfect uniformity* from cartridge to cartridge . . . chances for a possible are pretty slim.

That's why you'll find Peters match ammunition first choice on more and more pistol and rifle ranges. Peters cartridges are precision-made, precision-tested. Throughout each step on the production line, Peters experts check bullets, cases, powder and primer to *micro-close tolerances.* Before each lot is shipped, these same experts test-fire samples to make sure these fine cartridges meet Peters high standards of *reliable accuracy.* The result: from box to box, case to case, Peters match cartridges are *alike* to an amazingly fine degree . . . give you a head start on *more high scores!*

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HE LOOKS FOR TROUBLE. Peters technician squeezes trigger of target rifle in machine rest, testing accuracy of Peters match 22's. Samples from each lot must pass critical tests. Groups must fall within extremely rigid tolerances.

THE PROOF is on the target on the Peters ballistics range. Many a group made on this range at 100 yards from machine-rest rifles is the size of a 25¢ piece!

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DEWAR MATCH
22 LONG RIFLE
PETERS
DEWAR MATCH
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TARGET
22 LONG RIFLE
TARGET

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Winchester Model 52 Target Rifle, Standard weight without sights	86.35
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(Prices shown include tax)

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6 x 30	186.00
7 x 35	186.00
8 x 30	204.00
9 x 35	204.00
7 x 50 (not Zephyr Light)	210.00
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Suède Case for above	1.75
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Same, Lyman receiver sight	176.25
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Dept. R

RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters'
devoted to a few words peculiar to th
shooting game which may be puzzling to th
newcomer.

ANNEAL—To render soft, as in the case o
steel and other metals, by heating to a lo
red heat and allowing the article to co
gradually.

BULK POWDER—Smokeless powder givin
results equivalent to black powder of equ
bulk.

BUSHING—A detachable metal lining. I
a gun, a bushing is commonly a very thi
metal ring used around another part
provide a better fit than direct machinin
can readily accomplish; or to provide
bearing surface.

DENSE POWDER—Smokeless powder, ge
erally colloided with nitroglycerin, whic
gives the equivalent of a black powd
load with a much smaller charge. Alwa
loaded by weight.

ELEVATED RIB—The raised sightin
plane placed on top of the barrels of
shotgun or rifle.

FOLLOWER—The small metal platfor
atop the magazine spring, on which th
bottom cartridge of the stack rests. Th
follower transmits the thrust of the mag
zine spring to the stack of cartridges
they will feed at the proper angle into th
feed guides for delivery into the chamb
of the gun.

GEWEHR—In German, a rifle.

MAINSPRING—That spring which pr
vides the energy actuating the hammer
striker. Not to be confused with the o
erating spring or recoil spring found
semiautomatic weapons as part of t
breech closing mechanism.

NEAT'S-FOOT OIL—A pale yellowi
fixed oil made by boiling the feet a
shins of neat cattle. It consists alm
wholly of olein and is used as a fine lu
ricant and leather dressing.

PATCHED—A term, when applied to mo
ern bullets, synonymous with me
jacketed or metal cased.

PENETRATION—The distance a bul
will travel through a given substance. F
testing purposes ⅞-inch pine boards
given distances are commonly used.

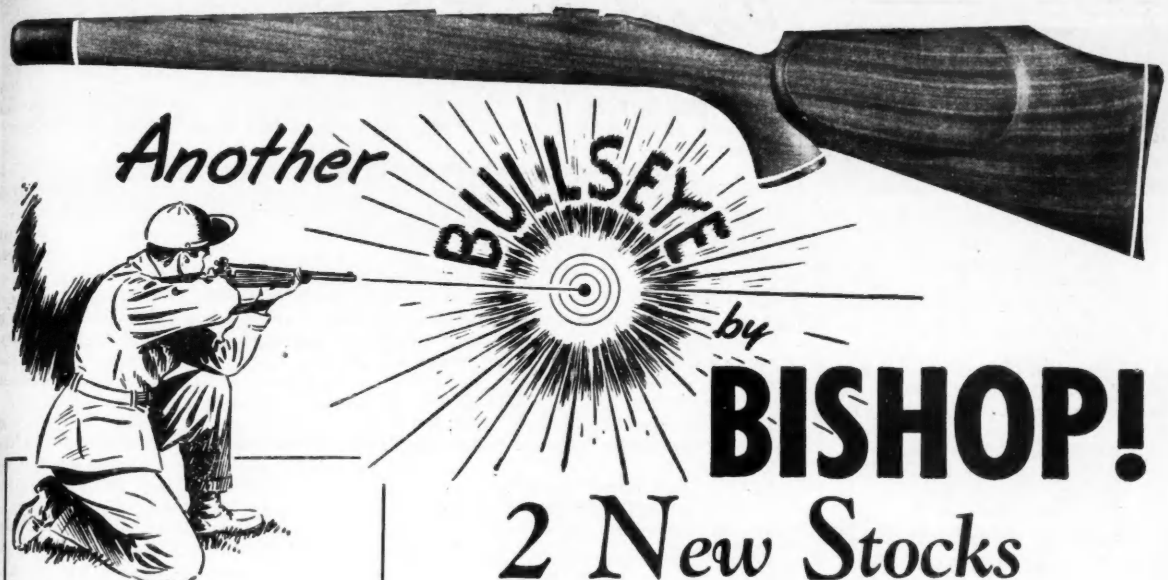
PROVING—The testing of actions and ba
rels with 30 to 40 percent overcharges
order to ascertain if they are of requisi
strength.

SETSCREW—1) A screw so located as
secure another screw which might becom
loosened in the normal use of the weapo
2) A screw which regulates the amou
of pressure necessary to release the trigg

SHELL—As pertains to small-arms a
munition: 1) A loaded shotgun cartrid
2) An empty metallic cartridge case,
Colloquially, a loaded metallic cartrid

SLACK—As pertains to small arms, the fr
travel against spring tension only, of
trigger before it begins to disengage t
hammer or firing pin. Slack is not p
vided in target weapons or in most spo
ing arms. It is a form of safety dev
used mostly in military weapons and
to be confused with 'creep,' which occ
while the trigger is disengaging the ha
mer or striker.

THROAT—The forward portion of
chamber where it tapers to meet the dia
eter of the bore proper.



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BISHOP STOCKS are made of fine, dense, hard-grain black walnut that grows in southern Missouri and northern Arkansas. Precision machinery is used for inletting and for all accurate work required to produce fine stocks.

Tenite Fittings of the best grade are supplied and fitted on all Bishop Superior and Leader Stocks. Heavy Target Stock is fitted with no-slip white line Mershon butt plate. We use our own patented system of attached fore-end cap which saves the stocker a great deal of tedious labor.

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Order Your Stock From This Ad. We can make deliveries immediately. You can have your choice of black or ivory tenite fittings on any stock. State your preference.

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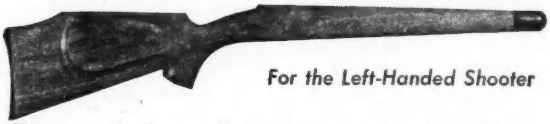

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These new Stocks are also made for the left-handed shooter, with cheek piece on right side . . . available in the Springfield, Enfield, Krag and Mauser. Specify when you order whether you want left-hand style.

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are made for M721 Remington . . . 1917 Enfield . . . Remington 30S . . . 1903 Springfield . . . 30-40 Krag . . . M98 Mauser . . . Winchester 54 and M70, and for all other popular actions.

SPORTER TYPE, semi-inletted, semi-finished. Postpaid.................... **$8.95**

MANNLICHER TYPE with steel muzzle fitting and screw. Postpaid.................... **11.50**

TARGET TYPE. Newly designed heavy target stock—with Mershon No-slip butt plate. Postpaid..... **11.50**

White inserts under black fittings are optional in Superior Stocks at no extra charge.

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Our Leader grade is a wonderful bargain for those who want a stock just as good for service as the Superior, but not having quite the same beauty of grain. In appearance it is just like the Superior Stock shown above. The Leader Stock is NOT a factory second and you will be pleasantly surprised by its quality. It can be supplied for all popular makes of bolt action guns. Made for left handed or right handed shooters.

Special Price, Postpaid.................... **$5.00**

Leader Stock is also supplied in Mannlicher and Target Type Stocks for $8.50.

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DeLuxe "White Line" Recoil Absorber—A brand new principle of recoil absorption in the world's finest recoil absorber. Large and small sizes. Red, brown and black colors. Skeet, Speed and Regular styles . . **Only $3.50 Ea.**

The Original "White Line" Recoil Absorber—For shotguns and rifles. Used and recommended by expert shooters everywhere. Skeet, Speed or Regular styles in jet black, walnut brown or tile red colors. . . . . **Only $3.25 Ea.**

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Transverse sawtooth gripping surface holds rifle to shoulder regardless of shooting position. Three sizes—a size for every rifle. Indispensable for all target shooters. Jet black, walnut brown, or tile red colors. Utmost quality at **Only $2.00 Ea.**

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"Sure Grip" Shell Pack—Made of pliable, durable rubber Fits any ordinary belt up to 2" wide. Holds any 10 shells from 25 to 35 caliber, securely, but instantly available. Prevents loss of ammunition. Jet black, walnut brown, or tile red colors . . . . **Only $1.95 Ea.**

These are only a few of scores of Mershon necessities for hunters, target shooters and outdoorsmen. All are absolutely guaranteed to give complete satisfaction or money back. *Ask for and look for the "White Line"* It is your assurance of utmost in quality, value and satisfactory service. See your dealer or gunsmith. *Canadian representatives—Scope Sales Company, Ottawa, Ontario*

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Ricochets . . .

SHOOTERS NUTS?

Polo, Illinois

Editor:

Gads! You've done it again!

Just when I think I've learned something (via experience, conversation, observation, reading) about outdoor shooting then you come along with a story about this guy, Perkins.

It hasn't been very long since the Old Coach wrote an article about virtues and values of keeping a score book, plotting each shot, etc.; also, I've seen printed advice by the ream advocating such tried and true gems as, "when things go wrong during the match, go back up on sighter"; "take it easy—good prone shooting is a slow, methodical process"; "be alert for sights of wind change—observe trees, weeds, flags, dust from shots, etc."; "plot each shot in score book—observe pattern forming and account for and adjust to changes in center of impact"; "wait until cross hairs settle down before beginning to squeeze trigger".

I could go on forever; but what's the use? Perkins says (and scores speak for themselves) he gets through while most of us are still on sighter and that he sometimes shoots his record string in 75 seconds! How can he—or I, or anyone—plot shots in scorebook, relax, dope the wind, go back up on sighter, check sling and position, load 'em single-shot, take it easy, wait for cross hairs to quiet down, etc., in less than four (4) seconds per shot?

No wonder non-shooters think we're nuts!

M. H. Banner

ILLEGAL POSITION

Bloomfield, N. J.

Editor:

Regarding the last issue of Rifleman—on page 27 there is a picture of Robert E. Perkins illustrating the 'relaxed' position which he advocates in his article.

As an official referee of your Association, I think that it is only my duty to remind Mr. Perkins that this 'relaxed' position would invite criticism from any range officer who is on the job. His position, in addition to being quite obviously very low and probably violating rule regarding rifle butt, is in violation of rule 3-12. The leg of his scope stand is under his arm and if the arm is not actually resting on the leg, his clothing is certainly touching the leg of the scope. We try to teach our juniors and others the correct position—why not follow out this precept in your illustrations of shooters?

A relaxed position certainly—but not an illegal one.

Mark R. M. Gwilliam

Camera angles do funny things. To avoid loosing details which should have been included in the picture of Perkins, it was necessary to crowd the scope toward the shooter as much as possible. As a result, the tripod leg is too close to Perkins' elbow, and the angle at which the picture was made adds the final touch to give the appearance of an incorrect position. Were Perkins to attempt to spot a shot with the scope hovering over his shoulder as pictured, he would certainly bump his ear. Nevertheless, we appreciate Referee Gwilliam's letter, as well as the splendid work he is doing at tournaments.—Ed.

ROMANTIC AND EXPANSIVE

Everett, Washington

Editor:

No doubt you expected a storm of ridicule to result from the appearance of the feature "Chucks-Western Style." I am sure that the riflemen of the country have not disappointed you.

I attribute the statements in this laughable article by Wallace Taber to the following:

a) Overestimation of range. The article admits that they did not retrieve, so how could they be sure their estimation of range was correct? Certainly all riflemen are aware of the human proclivity to exaggeration, whether it be a fish story or a gun story.

b) The tendency of westerners and gullible easterners to wax romantic and expansive about all things 'western'. This is a compensatory reaction typical of the west.

c) A conscious or unconscious perpetuation of the myth that western hunting is more rugged, difficult and longer range than dilettante eastern hunting. I called this a myth; I think it is. I spent the first twenty-six years of my life in Pennsylvania and New York and find that game is more plentiful in the east and usually shot over similar ranges. As far as deer hunting is concerned, I'll take Pennsylvania any day.

These remarks are in no sense intended to be derogatory of Messrs. Taber, Barnes and Crawley. However, I think that the time-honored test of truth called 'consensus genitum' is against them. I leave room in my thinking for the possibility that I may be wrong; after all, I've only been in the shooting game about twenty years.

Tolerantly yours,

K. W. Larrison

North Salem, Indiana

Editor:

I enjoyed the article by Mr. F. Wallace Taber on "Chucks—Western Style" very much, as I have hunted every inch of that country, practically, with Barnes and Crawley, and have killed chucks with my .236 job, right along side Barnes too, even at their 600-yard stuff. That country is a chuck hunter's dream.

However, the mountain air must have made Mr. Taber see things a bit differently, as he moved Silverton up to 12,000 feet. In fact it's only 9,302, which is quite a bit less!

Also, he necks down a .250 to 6.5mm.—a new procedure.

But nonetheless, a good article well written, about a fine sport, and a fine group of sportsmen. Let's have more such articles!

Vernor Gipson

ENERGY

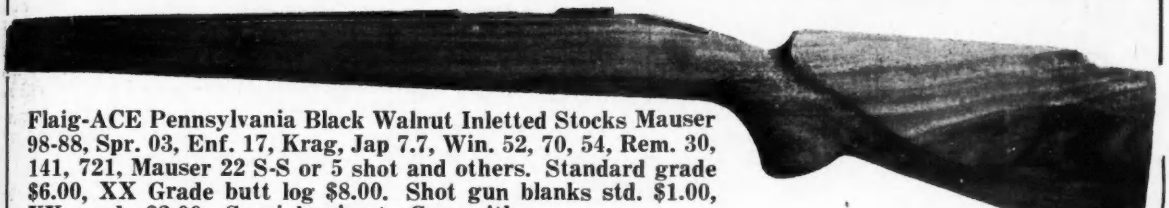
Seattle, Wash.

Editor:

I read with interest "Energy, Momentum Power?" by Major Ralph W. French in the May issue. In fact, this material, based on extensive study by Princeton University

Flaig-ACE

PENNSYLVANIA BLACK WALNUT INLETTED STOCKS



Flaig-ACE Pennsylvania Black Walnut Inletted Stocks Mauser 98-88, Spr. 03, Enf. 17, Krag, Jap 7.7, Win. 52, 70, 54, Rem. 30, 141, 721, Mauser 22 S-S or 5 shot and others. Standard grade $6.00, XX Grade butt log $8.00. Shot gun blanks std. $1.00, XX grade $2.00. Special price to Gunsmiths.

Ask for Gun Stock Folder #16

FLAIG-ACE GUN-STOCKS

Pennsylvania Black Walnut, Curly-Maple, Apple-Wood

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BLACK WALNUT RIFLE STOCKS: BURLS

XXX grade ....$17.50 to $20.00   XXXX grade $25.00—SUPER-BURLS..$35.00

CURLY MAPLE

Grades from $8.00 to $25.00 (according to figure)

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OREGON MYRTLE: Rifle stocks $15.00 to $35.00

We will inlet any of the above to the type of rifle wanted and shape outside for left or right hand shooter. Priced as above.

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BLACK WALNUT	**$1.00 to $12.00**	**CURLY MAPLE**	**$2.00 to $12.00**
APPLE WOOD	**$2.00 to $12.00**	**OREGON MYRTLE**	**$7.50 to $20.00**

* Reported from Pennsylvania State Forestry: Tree from near Slippery Rock, Lawrence County, Pa.

ACE Ramp Sights, racy lines, complete	**6.00**
Dockendorff Gold Cross-Wire	**5.75**
Buehler Safeties $6.00; Mounts	**15.00**
Echo mts. $17.50; Pachmayr mts.	**20.00**
Lyman ramp sights, all sizes	**6.25**
Lyman 48 sights, most numbers available $12.50-	**14.00**
Tru-Line Jr. Loading tools	**22.00**
B&M Reloading Tools all calibers	**19.50**
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Redfield 102-70's most no.'s $6.50	**9.50**
Krag Barrels made from Enf 24" good $12.00—6 or more each	**10.50**
Colt 45 ammo late per 100	**4.00**
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Ideal Powder Measure No. 55	**10.00**

AMMO. ON HAND (priced per box)

30.06 150-180 gr. 270 Win 130-150 gr. 7.62 Russ. 7mm Mauser, 8mm Mauser, 8mm Mannlicher, 30-40 Krag. 180-220 gr	Box $3.25
257 Robt. 87, 100, 117 gr. 300 Sav. 150-180 gr. 45-70 S.P.	Box $2.90
22 Hornet, 30 Mauser (pistol), 33 Win., 30 Luger, 9mm Luger, .348 Win., 44-40 Russian, 44 S&W Spec.	Box $3.50
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22 H.P. Sav, 219 Zipper, 25-35, 25 Rem., 45 auto, 32-40 S.P.	Box $2.25
351 auto, 32 Win S.L.	Box $4.50

B&L Sun Glasses $9.95. Hook-overs	**4.50**
B&L Skeet Glass $10.75. Kalichrome	**11.75**
B&L Shooters Glass $13.75. Kalichrome	**14.75**
B&L Binoculars Zephyr Light, hard coated lens 6x30 7x35 mm	**186.00**
Enfield extractors new	**1.50**
Colt 45 mags, new $1.50; used	**1.00**
Redfield Jr. Mts., $12.50, $14.50,	**16.50**
Texan scopes coated, 2½ Ex.	**50.00**
Complete 98 M. bolts v.g.	**12.50**
Mauser 98 stripped bolts v.g.	**5.00**
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NEW F-N actions with 30-06, 257, 270 Chrome Moly 24" sporter barrel fitted, white not blued	**69.00**
F-N actions with 220 Swift barrel or 22-250 cal. sporter or med. heavy, box shortened, white 25 in.	**74.00**
F-N actions, late style	**45.00**
Special price in lots.	
F-N Bolts stripped new low scope	**12.50**
All parts for F-N actions in stock.	
Spr. Actions complete $27.50 low numbers—Same with new 4 gr. Barrel fitted	**42.50**
Colt Woodsman 22 cal 6" Target	**75.00**
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38 S&W M&P 2.4.5.6"	**56.50**
Colts 22-38-45 Units	**35.00**
Lugers, 3¾" issue, 9mm, good to v.g. $30.00, $35.00—P-38 exc.	**25.00**
37 Ithaca's 16-12 ga, 20 ga	**83.50**

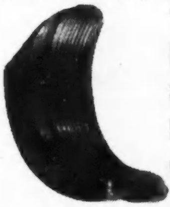
SPECIAL

30.06 ammo 150 gr. M.C. late date $6.00-100

CASE LOTS 1500 rounds $78.75

JOHNSON-MAKE

Chrome moly barrels 22" featherwgt only Enfield 30.06 partially chambered. Threaded for Enfield $12.00. Lots of 6 or more $10.00 each. Will fully chamber $5.00 additional.



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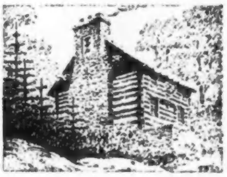

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scientists and the OSRD, is the best article on the subject of killing power that has been published for the interested hunter and rifle crank. It confirms by test what necessarily must be physically and mechanically true, i.e., that the destruction of animate or inanimate tissue varies as the impact energy of the bullet and the absorption of that energy in tissue. Energy has been sometimes referred to as paper energy by disbelieving writers. The reader would do well to study this article closely, with utmost consideration—and *without* prejudice.

PEYTON AUTRY

IT PAYS TO ADVERTISE

Tyler, Texas

Editor:

In March I ran an ad in the Arms Chest offering IMR 4895 powder for sale. The response was so great that my supply was soon exhausted. I have returned several hundred checks and money orders, but owing to incorrect or no local address of purchasers, I have several of these letters returned to me.

If any of the members who have ordered powder of me and have failed to receive same, or their money back, will write me again, I will be pleased to return their remittance.

JIM L. SHULL
Custom Gunsmith

LOCK, STOCK AND BARREL

Mantua, Ohio

Editor:

The expression "Lock, stock and barrel" is quite commonly used throughout th United States.

I wonder how many of our young readers and oldsters too, for that matter, kno of the origin of the expression and wha it refers to. Simply, it was of a pionee statement referring to a gun as a complet unit (lock, stock and barrel). It was use to illustrate the 'completeness' of anythin referred to or spoken of, as for exampl "I've sold my goods—lock, stock and barrel." or "I've lost my belongings—lock, stoc and barrel."

J. T. CHAPMAN

MORE INFORMATION

Elkhart, Indiana

Editor:

Since the Olympics of last summer ther have appeared in the RIFLEMAN a numbe of articles concerning the shooting whic took place there, but so far nothing muc on the winner, Grunig. I should appreciat fewer excuses from our team members a to why they didn't do better, and more in formation on why the winners did. Wha kind of gun was Grunig shooting? Di he use double set-triggers? What calibe was his weapon? What is his shootin style, and what are his idiosyncrasies o the firing line? If we can't shoot th game like the rest of the world wan to, let's at least not detract from tho who can and do. By the way, we oft get articles from Rosenberg; why ca we get one from Grunig, and then we have it right out of the horse's mouth. O hundred American dollars would probab look very good to our Swiss friend.

RICHARD J. WEAVER

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NEW H&R 'Leatherneck'

with *NEW* Magazine Ejector and semi-automatic action!

***New** streamlined design . . . **New** lighter weight . . . **New** magazine ejector. Yes, "Leatherneck" is the famous U. S. Marine tested semi-automatic with modern improvements and refinements.*

VAUGHN MONROE, star of the Camel Caravan over the Columbia Broadcasting System, Saturday, shown with his collection of fine sporting arms. Vaughn is holding the new H & R "Leatherneck"

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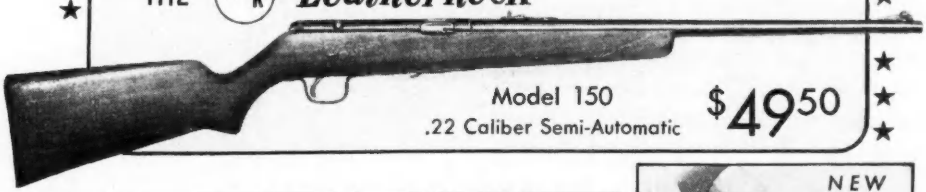

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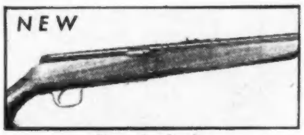
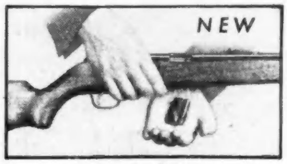


Clear-Cut Profile

H & R "Bull's-Eye" Broach Rifling



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RECOIL

Seattle, Wash.

Editor:

I wonder what old Bill Appleby would have said about the article by W. C. Davis (page 32) in the April issue—bet he would have given you a real ribbing.

Right on page 34 Davis says, "For as long as the law of conservation of momentum applies to inelastic impact, the bullet can knock over literally no more than the recoil of the gun."

Would Mr. Davis care to look at the picture on page 20 showing the measurement of a gun's recoil? Guessing at the weight of the gun and fixtures at eight pounds, the recoil energy indicated would be 26.9 foot-pounds. Now let's look at the energy of the bullet—and again I'll guess it is a 12-gauge gun firing about 1.125 ounces of shot at 1100 foot-seconds. This figures out to be 1320 foot-pounds. Now if we imagine that a 400-pound 'target' is hanging on just such a ballistic pendulum, and that the impact of our 1.125 ounces of shot is truly inelastic, the 400 pounds will rise just 3.30 feet into the air. And that is a danged sight farther than I have been hoisted by any 12 gauge, even if I do weigh less than 400 pounds. Yes, I did leave out the momentum of the powder gas, but it is a small correction and will not account for the difference between a recoil energy of 26.9 foot-pounds and a striking energy of 1320 foot-pounds.

How about a simple article setting this matter of momentum and energy straight?

G. L. HOLLINGSWORTH

Author Davis is on firm ground when he states that the bullet can knock over literally no more than the recoil of the gun, for as everyone who has worked with the ballistic pendulum knows, the ability of a moving body to impart its motion to another body is measured not by energy, *but by* momentum, *or mass times velocity. The recoil momentum of the gun is exactly equal to the forward momentum of the bullet and powder gases as they leave the muzzle. The momentum of the bullet on striking the object aimed at is obviously less than this figure. When a bullet stops in the body of an animal, bullet momentum gives the 'knock over' effect, while bullet energy, a much higher figure, is expended in causing heat, sound, and deformation of the bullet and of bones and flesh.*—ED.

LAMINATED STOCKS

Spencerport, N. Y.

Editor:

I was very much interested in the article in the April issue, by M. W. Lerner, on warpproof laminated rifle stocks; and have often wondered why some of our stock manufacturers have not gone into this type of stock commercially. Contrary to Mr. Lerner's statement regarding German laminated stocks, I happened to possess one of the early laminated stocks, bearing a very low serial number, made in early 1939. This stock was very nicely finished, well-shaped, sanded very smooth, and impregnated with a transparent finish, which seemed to be waterproof, oilproof, stainproof, and so hard that it was all one could do to scratch through the finish with a steel scriber or a jackknife.

ARTHUR HELFRICH

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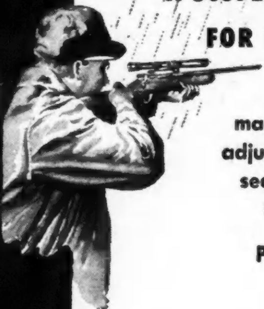

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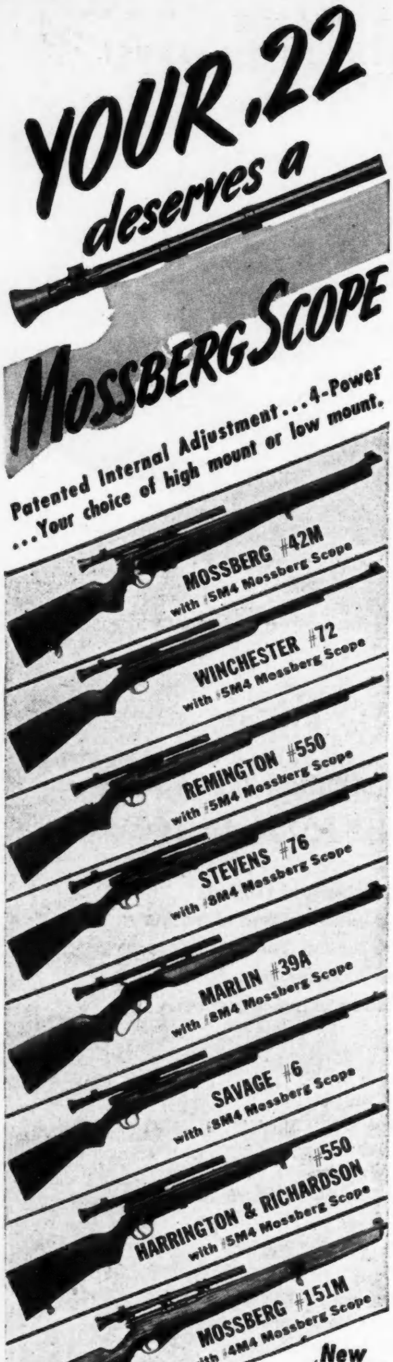

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Incidentally . . .

Probably few outdoorsmen, hunters, or shooters have bothered to define art, or even to think of it in connection with THE AMERICAN RIFLEMAN, but there is a relation. Surprisingly enough, several NRA staffmen have their own definitions of art but each definition is distinct from the others. In looking over page proofs before a recent issue of the RIFLEMAN went to press, Executive Director Lister suggested a change in position of a footnote, saying it would improve the appearance of, while simplifying, the page. "After all," Lister remarked, "the purpose of art is to clarify." RIFLEMAN Managing Editor Scofield, however, has an entirely different definition of art. An unprofessional art critic with Picasso's and Matisse's decorating his apartment, Scofield is inclined toward a much more involved, some say bewildering, definition of art than Lister is. Vaguely, according to many talks on the subject we have heard from editor Scofield, art is tangled intricately with mysticism, primal urges of the human animal, and private and personal 'tendencies' of the individual. Oddly enough, RIFLEMAN artist Jim Berryman is a thoroughly practical person, concerned with subjects for his daily political cartoon in Washington's *Evening Star*, newspaper and magazine deadlines, and the aspect of an article which lends itself to pen and ink or charcoal rendition on fiber board.

Where art stands out in its relation to THE AMERICAN RIFLEMAN, however, in our opinion, is far from the illustrations for articles or the little thumbnail sketches which accompany this column each month.

If you will look closely at the top line on the address label on the cover, you will see letters and figures reading something like 5159 2SP MAY 51 R. Mean much?

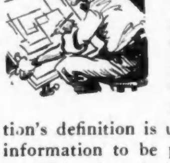
The circulation department says that every letter and figure in that line denotes a fact. If a two year renewal was received May 15, 1949, the date is briefed to 5 (May is the fifth month), 15 (date of receipt), 9 (ninth year of the decade). The letters which come next explain the type of membership it is. 2 SP means that the membership will run for two years and the money should be prorated by the Accounting Department on special account number two for the twenty-four months it is to run. Instead of 2 SP, a lot of stencils carry the letters MSA, which indicate a one year subscription. The month appearing next on the code line and the two numerals following, indicate the month and year of the last RIFLEMAN a subscriber receives unless the membership is renewed. The letter appearing next may be either N, E or R,—N) a new subscription, E) an extension of a current subscription, or R) a renewal of a subscription already expired.

Of course there are other variations of the code line 5159 2SP MAY 51 R. If instead of renewing, a member becomes a life member LIFE is substituted for 2SP MAY 51 R.

Junior members are designated by JR M SUB or JR SUB, meaning that either they are Junior members and subscribers or else only Junior subscribers to the RIFLEMAN. Club membership is indicated by a letter for the type of club, that is, A or B, and the number given to the club by the accounting department for bookkeeping purposes.

So you see the circulation department is practicing an art when they put the code line above your name on your stencil membership in file, an art that dates back to the time of Julius Caesar, even before the birth of Christ when the prophet Jeremiah wrote Sheshak for Babel (Babylon), substituting the second and twelfth letters from the end of the Hebrew alphabet (sh, sh, k) for the second and twelfth (b, b, l) from the beginning. And circulation's art enables them to identfy your subscription easily and quickly if you quote your code line when writing the NRA.

We must remember that Lister's definition of art was at an opposite pole, applying to clarity rather than hidden meanings; that Scofield's was mystical and deep in the human body and soul and that Berryman's was charcoal and fiber board and deadlines. Circulation's definition is useful, permitting a lot of information to be put on a small inch-and-a-half by three-inch stencil.—J.A.H.



THE AMERICAN RIFLEMAN

COVER

Glen Whitney (with glasses) of Birmingham, Mich. and Frank L. Trezise of Royal Oak, Mich. are pictured on a woodchuck hunt in Ontario last fall. Trezise's rifle is a Winchester model 70 in .220 Swift caliber with an Alaskan scope on Litschert mounts. Russ Milligan made the shot at 1/50 second at f7 using Daylite Kodachrome in a Speed Graphic with Synchro-Flash.

PUBLISHED MONTHLY BY THE NATIONAL RIFLE ASSOCIATION, 1600 RHODE ISLAND AVENUE, WASHINGTON 6, D. C. DOMESTIC RATES (NORTH, SOUTH, AND CENTRAL AMERICA) $4.00 A YEAR, $7.00 FOR TWO YEARS, $10.00 FOR THREE YEARS; ELSEWHERE ADD $.60 PER YEAR FOR FOREIGN POSTAGE. ENTERED AS SECOND-CLASS MATTER, APRIL 1, 1908, AT THE POST OFFICE AT WASHINGTON, D. C., UNDER ACT OF MARCH 3, 1879. COPYRIGHT, 194 NATIONAL RIFLE ASSOCIATION OF AMERICA. ALL RIGHTS RESERVED. FOR CHANGE OF ADDRESS, GIVE BOTH NEW AND OLD ADDRESS AS THE LATTER APPEARS ON ADDRESS LABEL.

The AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

1600 RHODE ISLAND AVENUE, N.W., WASHINGTON 6, D. C.

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* * *

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HYSTERIA AHEAD

Our shooters and conservationists are headed into the greatest crisis in their history. If shooting on a nation-wide scale is to be preserved as an American tradition, the current problem must be solved quickly and sanely. Hysteria is already rearing its wild-eyed, befuddled head.

The article, "Hunted Hunters", on page 13 of this issue, describes a situation which prevails, in greater or lesser degree, in every state. It is not just a problem involving big-game states or high-powered rifles. New Jersey bars rifles from its deer fields—and Jersey farmers and hunters are complaining bitterly about the risks they incur from wild-flying buckshot. Where there is no big game, the carelessness of shotgun shooters and of .22 shooters arouses a storm of protest. Vandalism and 'wise-guy' stunts in breaking down fences and hedgerows, shooting out electric and phone lines, insulators and transformers, road signs and railroad crossing warnings are turning large segments of industry, the public and the lawmakers against the shooting game. More serious is the fact that sensible shooters, real sportsmen, are themselves beginning to raise the familiar American cry, "There ought to be a law".

During the 1949 sessions of the State Legislatures there were only three 'anti-gun' bills introduced at police request but there were twenty-nine such bills introduced by state game commissions, conservation or farm groups. Hysteria has already reached the point where gun lovers urge anti-gun laws!

It is time to call a halt to panic. The situation cannot be corrected by spur-of-the-moment legislation, by buck-passing or by 'solutions' based on outmoded traditions. The fault lies at the door of no one group. It can be corrected only by friendly, frank discussion between many groups.

Education and training is the primary need—equally among shooters and among game commissions and their enforcement agents. In many states we have moved from a condition of under-supply of game to a condition of over-supply of both game and hunters—but shooters and conservationists alike still think in the pattern of the years before the war.

Protection of persons and property is properly the concern of criminal and civil law. The writing of proper legislation in these fields is the business of lawyers trained in those fields. But game commissioners and conservation groups trained in the knowledge of game habits and habitat, not in the law, submit legislative proposals for inclusion in the game code which shuold be, and often already are, in the criminal and civil codes.

Reputable citizens who will do all in their power to aid in the capture and conviction of a hit-and-run driver or pickpocket will close their eyes to illegal shooting, trespassing and vandalism in the hunting field. Men who will not permit whiskey in their rifle club make no protest when their hunting companions go for the bottle.

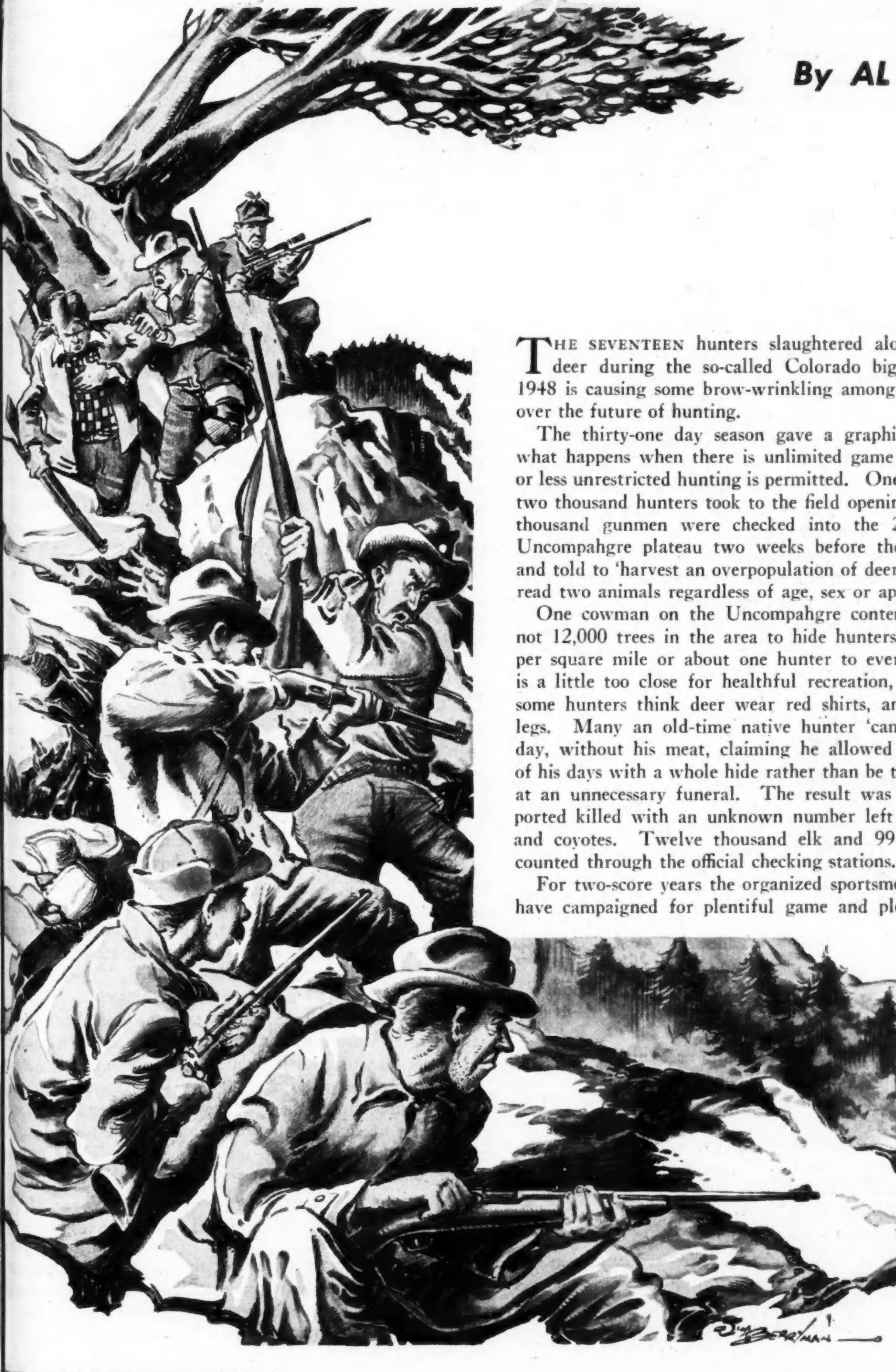
The rising ground-swell of resentment leaves little time for soul searching by shooters and conservationists. We will either discard our buck-passing, our hypocrisy and our living in the past and begin an open-minded study of the whole problem or people less well equipped to do the job will regulate ten million shooters into the sale of their hunting gear.

When that happens, America will cease to be 'the arsenal of democracy'. *Where do we go from there?*

C B Lister

HUNTED HUNTERS

By AL LOOK



THE SEVENTEEN hunters slaughtered along with 72,000 deer during the so-called Colorado big-game season in 1948 is causing some brow-wrinkling among those concerned over the future of hunting.

The thirty-one day season gave a graphic illustration of what happens when there is unlimited game and when more or less unrestricted hunting is permitted. One hundred thirty-two thousand hunters took to the field opening day. Twelve thousand gunmen were checked into the 250 square mile Uncompahgre plateau two weeks before the regular season and told to 'harvest an overpopulation of deer'. Their license read two animals regardless of age, sex or appetite.

One cowman on the Uncompahgre contended there were not 12,000 trees in the area to hide hunters. Fifty hunters per square mile or about one hunter to every thirteen acres is a little too close for healthful recreation, especially when some hunters think deer wear red shirts, and walk on two legs. Many an old-time native hunter 'came out' the first day, without his meat, claiming he allowed to live the rest of his days with a whole hide rather than be the silent partner at an unnecessary funeral. The result was 72,000 deer reported killed with an unknown number left to the blowflies and coyotes. Twelve thousand elk and 99 bear were also counted through the official checking stations.

For two-score years the organized sportsmen of our nation have campaigned for plentiful game and plentiful shooting.

When they got them they were hit with two unexpected problems (1) the killing of hunters, and (2) the prevention of overpopulation of game areas.

If last season's experience in Colorado is repeated, many think the whole future of game conservation and of hunting will be placed in jeopardy.

The conservation of game has so overpopulated our forests and range land the cattlemen contend that deer are overrunning a range already overstocked with cattle and sheep. Deer and elk have grown beyond the nuisance stage and the rancher wants them killed off to save his stock yards in winter and his growing grass in summer. Livestock men contend game conservation has become too much of a good thing when forty percent of the forest area is devoted to raising grass for game animals.

Sportsmen's organizations counter such arguments with the fact that without conservation there would be no deer, elk or bear at all. And, they also remind us, more people hunt than run cattle, and the cattlemen do not own the range but merely rent it from the taxpayers on a year-to-year basis. To which the cattlemen reply that all Americans, including hunters demand more beef to eat, the taxpayers pay for game conservation too, and the reason the cattlemen rent the grazing land is because it has been taken over by the government and off the tax rolls.

So it boils down to: Sportsmen want more wild game, and the livestock operators want less. Somewhere in there is a happy norm which in 1948 the Colorado Game and Fish Commission attempted to find, with the unhappy result of seventeen hunters dead and thirteen seriously wounded. What constitutes a sportsman's paradise is fast becoming debatable.

When there is plenty of game, everybody wants to hunt. Every shoe clerk has dreamed of hunting back with Dan'l Boone when any animal was legal and you could shoot a doe for camp meat, then hunt for a 14-point buck to flaunt before the boys back home. Western Colorado's 1948 special pre-season was such a dream.

The Colorado Game and Fish Commission officials admitted the situation got out of control and that they never expected such an assortment of screwball gunmen to invade the territory for the special season. It all started when the commission ignored the protest of several sportsmen's organizations and decided the deer population in certain sections must be reduced by slaughter to prevent wholesale winter starvation among the animals. "It is better to kill the deer than to let them die a lingering death", said the director.

The Commission failed to take into account the greediness of man when they decided to 'harvest' 11,000 deer, and created a special hunting mecca on the Uncompahgre plateau. Their advertising picked up several thousand novices with $40 for a license, impulsive fingers, and ignorant of the fact that deer don't smoke a pipe. They were nothing more than gunmen with common sense dulled by a nervous desire to kill. In their lapse of reason they forgot another hunter moved around in the adjoining thirteen acres.

The result was a slaughter of life—wild, human and domestic—unprecedented in the history of Colorado and perhaps many other states. Thousands of inexperienced gunmen, many of them not knowing a cow from a deer, blazed away with complete disregard of property rights or game la

Many ranchers who ordinarily give hunters informati becoming apprehensive of their property and lives of th family, locked their gates. But this never even slowed do

the overzealous among nimrods. They tore do fences, broke into cabins, s dishes, food, clothing and f wood. They killed cattle a horses, left gates open; he got mixed and aware of danger crowded in the fe corners afraid to go to wat Stockmen actually risked th lives at times in attempting attend their animals. Th couldn't work their herds or drive them to lower count Lonely dirt roads and chuck wagon trails in many places cars parked bumper to bumper. Very few hunters beca lost. If you didn't know what canyon you were in you ask directions just as if you were on Michigan Avenue or Bro way. Hunters drove up lanes at cattle ranches and ask "Where are those deer you want killed?" or "Is this hunter's paradise we read about?"

Calves were butchered for camp meat. One outfit alo reported twenty-eight cows that lost their calves. This pr ably seemed very funny to tenderfoot hunters, but a cow w a tight bag is no laughing matter to a cowboy. Cattlem caught by the early deer season with stock still in the h country, claim their herds lost weight by unnecessary runni And weight is money to these boys.

Before the season a few stockmen were in favor 'harvesting' the excess deer in order to depopulate the ra and provide more grass for their cattle. It sounded lik good idea but, like the game commission, they didn't kn it was loaded. They are now saying they would rather f the deer than be unwilling hosts to color-blind hunters. T don't like to have even deer shot within a few yards of th cabins by trigger-happy tenderfeet whose judgment doe match their enthusiasm.

Naturally the natives blamed all the wanton slaugh abandoning of carcasses, and unsportsmanlike conduct on out-of-state hunters. This is too sweeping an indictment they had some reason for their 'feeling'. Merchants tell visiting hunters coming in to buy a box of cookies and a pi of cheese for lunch. When questioned they thought they w going out for a few hours and come home with their limit, never realizing how much country there is outdoors a how cruel mother nature can be to the unitiated. One hunt when queried if he had matches, replied, "Thanks, I do smoke". He didn't know that altitude gets chilly.

When asked why he didn't take his kill back to ca another replied, "I paid my forty dollars and I'm not go to settle for that little runt." He thought a mule d should weigh as much as a mule. Very few of the nov brought sufficient clothing. There were exceptions of cou One party of eight hunters from out-of-state brought alon refrigerated truck to care for their meat. Their beds w made, dishes washed, camp policed, no visible coffee grou tin cans, dishwater or rubbish thrown around. Needles say their camp was clean, firewood was stacked, brush clea up, garbage in a pit.

On the opening day of the regular season it was not unu to have a man ask how to load and unload his gun. Hund of the hunters had never seen a deer outside a woven fence. One cattleman swears a deer hunter came to a c or water and spied an animal in the flat below the house. He sked the rancher, "Why doesn't that cow have horns? I hought all cows had horns."

The rancher rubbed his neck and replied, "Well, I'll tell ou, son. Some cows lose their horns fighting, and some ows is born without horns, and then we saw the horns off ome cows. But the reason that cow out there ain't got no orns is because that cow is a horse." It is downright amazing ow dumb an otherwise intelligent person can be when sudenly set out in the hills and next to Nature in the raw. You ctually doubt if they know a bull elk from a Brother Elk.

Ignorance of the law is no excuse in court; but ignorance f knowing how to hunt or how to handle a deadly highowered rifle too often does excuse you. One careless hunter estified at the coroner's inquest over his victim. He said, "I topped by a tree and I thought I saw an animal. After eciding it was a buck, I shot." The 'animal' was another unter 100 yards distant.

The coroner's jury delivered themselves of the following erdict: "Mr. . . . came to his death . . . as a result of a unshot wound . . . while hunting northerly from the . . . ow camp on the Uncompahgre plateau. The shot was care-essly fired by . . . who thought he was firing at a deer. Such eath was not felonious."

In another case the hunter shot "at moving brush without waiting to determine what was behind it." There is nothing in Colorado law to keep a blind man from buying a big-game license and going hunting. Another hunter was leading his horse along the trail. Apparently a gunman mistook the horse for a buckskin, shot, missed the horse, and killed the man leading it.

One man testified he overeard two hunters talking in camp. One said, "I didn't get shot today, didn't even see a deer." His companion said, I didn't see any either but I got several sound shots." He eant that he heard sounds in the bushes and fired. It's ather hard to keep a hunter like that from killing others.

A Glenwood Springs merchant who hunts regularly decided e wouldn't risk his neck this year with so many inexperienced unters in the field, so he stayed home. Walking to work own Main Street the second morning of the season he was ot by a gun accidentally discharged from a hunter's car cross the street. He is still mumbling something about God rotecting nitwits.

Under present laws of most states, the hunter is responsible nly when he shoots an animal. He is required by law to tag is kill, establish ownership, and not sell his meat. But when e shoots a human being, hardly a warning finger is pointed his direction. Not one hunter faced a judge for killing nother hunter during the Colorado season. But several faced judge for other offenses.

Toward the end of the season, deer were hard to locate nd eight native hunters set up a sort of black market in deer rcasses. If you had poor luck they would sell you a deer ready dressed out. You merely had to tag the deer, pay e men, take your meat home and start popping your vest uttons. Selling meat that would otherwise rot is unlawful, the judge fined these black marketeers an average of $75 ch for "unlawful possession".

Three other hunters killed a calf on the opening day and ere caught with the meat. The judge slapped them with $600 in fines, and put them on a five-year probation. For killing another hunter? No. For killing a $40 calf. It costs money to hunt.

On the basis of 100,000 hunters and an average of $20 per license, the Colorado deer season was a two million dollar sporting spree. Hunting is big business. If each hunter had a gun costing an average of $75, that adds up to $7,500,000 worth of hardware. With cartridges from 15¢ to 20¢ each, added to transportation, meals, horse rent, and other incidental expenses, the hunter who got home with meat costing under $5 a pound was lucky.

So great was the slaughter of deer, cows and hunters that Western Colorado cattlemen and sporting clubs called a special indignation meeting. Here were passed several resolutions complete with 'whereases' and 'therefores' to make a hunter behave himself while away from home. They admitted that hunting by its very nature is dangerous but so is the driving of an automobile. They also contended that a hunter doesn't buy a license to be shot at by some fool who thinks a deer wears spectacles and ear muffs. Motoring has been made more or less safe for mankind by laws controlling the operation of an automobile, hence they resolved that hunting needed a law controlling the operation of a gun. The only other alternative they said, was to provide a space on the license card for a hunter to write in his last will and testament.

From this meeting it was suggested that before obtaining a license a hunter must prove he can tell a gun from a ramrod, and know how to handle same. He must be able to identify various animals (including man) encountered while in the field. They suggested an increase in the number of game wardens and to authorize such wardens to search cars and confiscate liquor in game areas. In the heat of discussion no doubt the cattlemen forgot that the latter recommendation would also make it difficult for them to get frostbite medicine into their high country cow camps. Some of the more indignant natives wanted to stop selling licenses to out-of-state hunters, but mercenary instincts prevailed.

As a result of this meeting the Colorado Game and Fish Commission will present a bill to their legislature making the killing of a hunter in a 'careless and reckless manner' punishable as manslaughter, and establishing some sort of penalty for drunken hunting.

So it seems if sportsmen want the carefree unlimited hunting of the early 80's some laws are needed and there will need be about as many policemen out in the bush as hunters. Certainly the more deer you have the more hunters you have, and the more hunters you have the more laws (or brains) you need. Which brings up the point that no one has ever been able to design a law that would put brains into a man's head!

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INTERNATIONAL SLOW FIRE

By QUENTIN T. BROOKS

THE AMERICAN SHOOTER once again has become conscious of international pistol shooting. Last year, when the call went out for Olympic tryouts, the response was tremendous. The final tryouts proved to have the most sustained tension of any tournament many shooters have ever fired in. Maybe we should look closer at international slow-fire shooting.

In considering the international slow-fire game, two things stand out: The weapons used and the precision required. The pistols available for the 'no holds barred' type of slow-fire shooting can be placed into three groups: 1) The European free pistols; 2) the American single-shot pistols; and 3) the semiautomatics now used for three-stage pistol shooting.

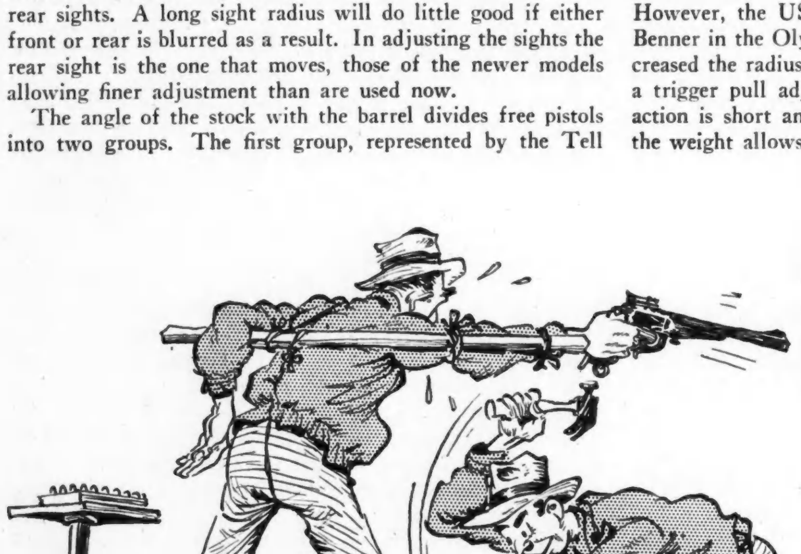
The outstanding characteristic of the European free pistol is the set-trigger which allows an extremely light trigger pull—the chief claim to fame of the free pistol. Free pistols also have long barrels. Barrels 20-inches long are allowed and they were once used briefly. In the recent Olympics matches, a free pistol with a barrel longer than 10 inches was not to be seen. Anyone who has tried to hold a rifle in one hand will understand why. The sights on a free pistol are of the partridge type, with which we are familiar, the principal difference being in the sight radius and in the manner of sight adjustment. When an extension rear sight is used, the sight radius is about 14 inches; without an extension the sight radius is about 10 inches. One exception that was used in the Olympics had an extension rear sight with the front sight set back about three inches on the barrel.

In selecting sights for a free pistol, however, the shooter should be governed by how well he can see both front and rear sights. A long sight radius will do little good if either front or rear is blurred as a result. In adjusting the sights the rear sight is the one that moves, those of the newer models allowing finer adjustment than are used now.

The angle of the stock with the barrel divides free pistols into two groups. The first group, represented by the Tell pistol, is stocked on the theory that the wrist should be ben downward its full extent. The second group has the stoc at about the same angle as American pistols and may be represented by the Hammerli (see RIFLEMAN, November, 1948 page 15). The American style grip is less tiring to me personally and allows the trigger finger more freedom, but o course the choice between the two types lies with the shoote Hammerlis were much in evidence at the recent Olymp shoot and their users seemed quite pleased with them. The are not finished as nicely as the Anschutz of German mak which they resemble, but they do have dependable action an excellent balance. Wide, flat-topped rear sights and adjustab stocks are additional features of the Hammerlis.

If an American shooter decides to specialize in slow fir he should invest in a free pistol. He should fit the pisto carefully to himself, then set out on a program of shootin that will enable him to get the most out of the weapo Everyone knows someone who has paid a small fortune fo a fine camera, and then wondered why it didn't take goo pictures. The reason is plain—he didn't learn how to opera it. After a shooter has used the free pistol for awhile, an he finds it does not hang right, he should not hesitate to a weight to barrel or stock for proper balance.

The American single-shot pistol has had a long and di tinguished history. The older models can be represente best by the S&W Perfected model and the H&R USR model. Barrels of 10 inches are standard on the two gu and they have superb accuracy. The rear sight is mounted front of the hammer, giving a sight radius of about 10 inch However, the USRA model of Karl Frederick used by J Benner in the Olympics had an extension rear sight which i creased the radius to about 14 inches. The USRA model h a trigger pull adjustable down to about one pound, and action is short and fast. If the pull seems heavy, rememb the weight allows the shooter to use the same shooting habi



Good slow-fire pistol scores d
not require splints, stakes,
mechanical aids for the shoote

that he uses with other pistols of heavier trigger pull. This is important if the shooter intends to add the slow-fire match to his repertoire rather than to specialize in it. Both of the S&W Perfected and H&R USRA pistols are heavy and little trouble will be experienced with wobble. Rather the shooter will have to be in good condition to hold them. The rear sights on both models should have movement and locking to allow group to be moved one-half inch on the 50-meter target.

If a shooter can secure one of the S&W Perfected or H&R USRA pistols, he should first have it put in perfect working order with a clean, crisp action. Next it should be fitted to the shooter's hand, so that it aligns naturally with the arm and allows the trigger finger perfect comfort and freedom of movement. A broad resting place for the second finger is necessary in supporting the pistol, otherwise the finger will tire. For the rest of the stock, comfort and ease of replacing the gun in the hand should be the keynotes. Free use of a pocketknife and plastic wood will allow the shooter to fit the stock to his own fancy. The final stages of fitting should be done carefully, with the shooter doing considerable shooting between each change. If after fitting the stock carefully the pistol still does not balance right, judicious use of lead on the barrel or in the butt may correct it. Don't make the pistol too heavy, however, a slow-fire match lasts two hours.

In recent years a new pistol has appeared, the Tompkins, that has been alternately hailed as America's answer to the free pistol and abused as a freak of the old-time muzzle-loader design. The stock is responsible for the muzzle-loader 'crack', as it does resemble the gently curving stock of a flintlock pistol. The stock favors the bent wrist manner of holding it, which is one reason it has been criticized so by shooters. Another point of trouble with the Tompkins is a trigger pull which varies after considerable use. Certainly the pull should be corrected and it undoubtedly will be if there is sufficient demand for the pistol, but in spite of its faults, the Tompkins is an accurate, well-balanced pistol, with a wide, clear sight, an adjustable trigger pull and a fast action of unique design. More important, men who have used the Tompkins considerably report a rise in average of about two points per string over their average with a semiautomatic, and it has been reported scores as high as 567 x 600 have been fired with the Tompkins.

The man who, through choice or necessity, finds that he must use his semiautomatic pistol or give slow-fire matches the go-by, should not allow equipment to stop him from firing. He should, however, re-examine his pistol and study the technique of slow-fire match shooting. No trouble will be found with the accuracy of a semiautomatic pistol which is in good condition. If the sights are clear cut with positive movement and locking, they are satisfactory. The stock should definitely be shaped to fit the user's hand. The mechanism of a semiauto pistol is hard to set below two pounds so it will be dependable, however, the user can work for a clean, crisp trigger pull with a good trigger stop. Matches are won with semiautos every month around the country by scores of 190 x 200 or better, which on the international target would average 90 x 100. Karl Frederick has an international target on which I fired a 97 with my Woodsman one day last year and on the day following Walter Walsh fired a 96 with a semiauto. The scores are not out of line with those we were shooting regularly. It is not my intention to play up semiautomatic pistols as the thing to use for international slow-fire shooting, however those who use them should not feel undergunned. Of course, when using the semi-automatic for slow fire, it should be thought of as a slow-fire pistol, the magazine being merely a convenient means of reloading.

There are the tools we are to use in this new angle to an old sport—the fancy, specialized free pistol; the simple, adaptable, single shot; and the old workhorse semiautomatic. They should not be considered freaks nor should fitting them for their job be considered patching. The service Springfield that has been remodeled into a fine sporter is regarded with pride. Why should pistols with a few trimmings that enable us to get more out of the weapons in slow-fire shooting be looked down upon?

Any semiauto, single-shot, or free pistol can be used in international slow-fire shooting, which should be renamed precision pistol shooting

The American pistol shooter has grown into the habit of avoiding slow fire if possible. He literally suffers through his slow-fire string in the National Match Course so he can get on to the greater excitement and noise of the timed- and rapid-fire stages. Rather than put the same thought and time on improving his slow-fire scores that he puts on his rapid fire, he excuses himself by saying that it is only for born slow-fire shots. Before disagreeing with me too violently—how many faster stages when properly fired.

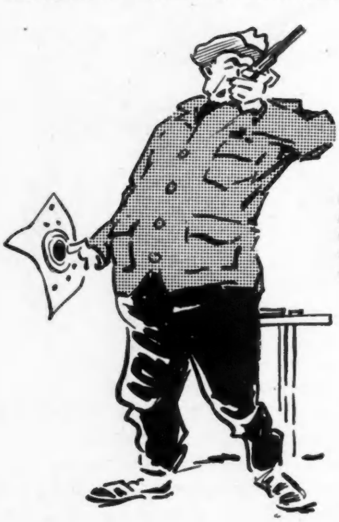
Actually the words 'slow fire' themselves are inappropriate and do not describe the sport. Rather, it should be called precision fire or deliberate fire. Why? Simply because the length of time a man takes to get the shot off has nothing at all to do with how good the shot will be. Whatever you call slow-fire shooting, it should have as definite rhythm as do the faster stages when properly fired.

In slow-fire shooting, the shooter's body is the platform which supports the pistol. If the pistol is to be steady, the platform must first be steady. Any lack of balance or any unnecessary muscle strain will lead to a quickly tiring body and an unsteady shooting platform. A relaxed position which supports the pistol with as little effort as possible should be sought. How would you stand if watching a very interesting sporting event with no seats available?

Use the empty hand to seat the pistol carefully in the shooting hand, since it allows more uniform seating than is possible when simply picking up the pistol in the shooting hand and firing it. Seat the pistol so that the butt is firmly against the heel of the hand and the trigger finger falls easily on the trigger. The other fingers should close naturally around the grip. The shooting arm should be extended until it is straight without being forced, the angle at which the wrist is held depending on the weapon used. Using the Tell pistol, or one similar to it, the wrist should be bent down as far as it will go without discomfort. Using more nearly vertical stocks, the wrist should be in the position which allows the most natural alignment of sights.

When firing, the shooter should have only those things on his mind which concern the shot: Front sight, rear sight, target and trigger control. Let's fire a shot and see what happens.

Take your position at the firing point, load and seat the pistol in your hand. Take several breaths and then let out part of the last one, holding the rest as you extend your arm smoothly to the target with no waste motion. Why smoothly? Because thrusting it out sharply causes the arm to vibrate and it is difficult to settle the sights on the target when the arm and hand are shaking. At the same time that the pistol is extended, take up the slack in the trigger, line up the sights, and as the bullseye settles into alignment with the sights start the squeeze. Squeezing is an operation in which a lot of time is lost. Some shooters carefully line up the sights and target before placing the finger on the trigger, which is useless as the movement of the finger will change the alignment. As long as the sights and target are in alignment the trigger should be pressed until the shot is fired.



Don't hurry through a slow-fire string, scattering your shots over the target. Shoot slowly but with rhythm, resting when the sight alignment does not come easily

If the shot cannot be fired easily and quickly, the gun should be taken down so the shooter can compose himself before trying again. This is where the time available in slow-fire matches can be used to good advantage. How long should be taken for each shot? It is not so much a matter of time as it is the ease with which the shot can be fired. Sometimes the sights and target fall in line as if on command and other times they line up slowly but definitely. Both of these cases are fine. The trouble comes when alignment has to be forced. Sometimes the sights line up beautifully only they are pointing six inches below the black. If they don't show signs of rising naturally it is better to take the pistol down and try again. The downfall of many a slow-fire shot has been attempting to hold perfectly still on a perfect sight picture.

What's wrong with that? Nothing! Only I've never seen anyone who could hold perfectly still for more than a second or two, so the shooter either tries to catch the target as he goes by it or he goes to the other extreme and tries to wait out alignment. The first method leads to plain jerking. The second method leads to some beautiful sight pictures, only the shooter is inclined to stand and admire them rather than shoot at them. There is something that might help. Let's practice our procedure exactly the same way each time we fire until it gets to be a habit with one action acting as a cue for the next and the appearance of a good sight picture is alone enough to cause the trigger finger to work.

In sight alignment permit no tolerance in aligning front and rear sight with each other but allow them to point at an area on the target rather than at a definite point. The size of the area will vary with the shooter's ability to hold, but it will enable him to take advantage of the times that the pistol is well pointed but oscillating slightly in the center of the target. It also means a smoother squeeze. If the area of oscillation is no larger than the ring representing your average shot, the shot should be a good one, provided it is squeezed off properly.

The words 'call your shot' have been used so much and so indiscriminately that they have lost any definite meaning. However, the main reason why you should call your shot is to check on both yourself and your pistol. In order to call the shot, you must pay close attention to what you are doing, to sight and target—in itself reason enough. If you call your shots as 7's at 3 o'clock and that is where they are, there is some comfort in knowing that the sights are not at fault. Perhaps your grip has shifted, or careless alignment of sights is the reason the shot is out. Many times I have caught myself shooting out at 6 o'clock because of careless alignment. However, if you call your shots as center 10's and the group begins to build up at 3 o'clock, you have good reason to suspect your sights. Unless you take particular pains to call your shots accurately, it's a waste of time to call them at all.

As a last word on technique, let me say that each shot should be fired as though it were the only shot you are going to fire. Once fired, a shot's only interest to you should be in the information it gives you for use in making the next shot.

In discussing practice there is only one major point I wish to make—that careless practice is worse than no practice at all. You should do everything in practice that you want to do in a match and nothing else. Each shot should be fired as carefully as though the world championship depended on it.

In preparation for a slow-fire match practice should be spread over as much time as possible. A little at a time for a long time is better than a great amount the week before the match. A slow-fire match is too difficult a match to build up the necessary stamina for it quickly. Try to work the practice for the match into your regular shooting program. Here is where the American single shot may have the advantage over the free pistol as shooting it would not bother your other shooting nor would it be difficult to shoot the single shot after using the heavier weapons. Neither the distance nor the target used for practice make much difference. The main thing is to build up confidence in yourself and in the weapon you intend to use. And confidence and familiarity is particularly important with the free pistol and its extremely light trigger. The light action can be most disconcerting if the shooter hasn't used it much. Also, if the user is not able to handle free pistols as old and trusted friends he will not be able to bring out any of the fine shooting that can be done with them.

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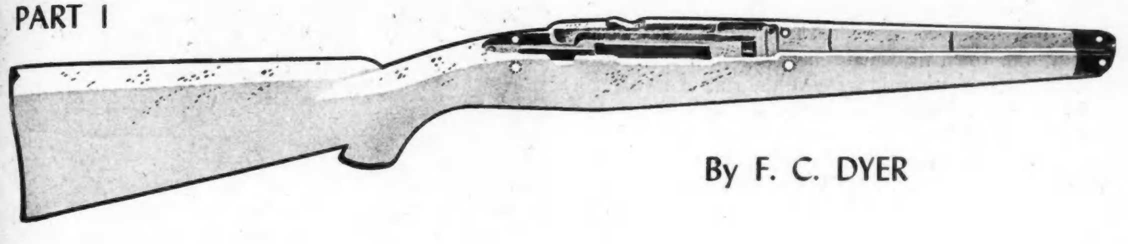
NEXT MONTH—*Because pistol shooters will tryout soon for places on the 1949 International Team, Quentin Brooks' article on page 16 was published in place of the one by Colonel A. M. Libasci announced for June. Libasci's survey of "What Makes A Pistol Champion?" will appear in July. The .270 will be the next cartridge covered in* RIFLEMAN *series on handloading popular caliber ammunition. An article on finishing gunstocks will be of particular interest to home gunsmiths.*

YOU DON'T BUY ACCURACY

PART I



By F. C. DYER

WHILE A STUDENT in high school, my son became interested in small-bore rifle shooting, and at the end of the hool year, still having an interest, he became affiliated with e Arlington Rimfire Junior Rifle Club, Arlington, Virginia. hrough acting as chauffeur to provide transportation to the nge and through more or less enforced observation of the ogress of the young shooters, it soon became apparent to me, nonshooter, that the small-bore game required a precision at might present some interesting problems. Being a firm liever in the thesis that if a good job is to be done only the st tools should be used, it was easy to arrive at the conclusion at a new rifle was, of course, a necessity. After a study of e book and other available literature on the subject, unfornately mostly manufacturers' advertisements, a 52 Heavy arrel Winchester was purchased; improved scores were imediately forthcoming. The young shooter was happy and e writer was serene in the knowledge that he had fulfilled s obligation by providing the ultimate in precision tools.

We held the idea until the following summer when the outor season started. Possibles at 100 yards were conspicuous their absence; maybe 96's were obtained occasionally and 's were pretty common. Well, of course, we 'couldn't blame e gun' so we thought it must be the shooter. It wasn't long, wever, before a marked decrease in enthusiasm became aprent in the young shooter's attitude. Also, the writer began have some qualms about the validity of his claims that he d provided the ultimate in precision tools. A careful reading the chapters on "Accuracy" and "Bedding the Rifle" in *The imfire Rifleman* by Edwards Brown, Jr. led to the conclusion at the equipment warranted a little further investigation. It emed advisable to determine what factors were causing e poor scores by determining those involved in the equation accuracy and seeing which could be eliminated or evaluated order to learn the ultimate in accuracy. A logical breakwn seemed to be as follows:

1) Optical errors of the human eye
2) Errors of the sighting system
3) Errors due to atmospheric conditions
4) Error of hold
5) Errors due to ammunition
6) Errors due to the rifle itself

From the standpoint of analyzing what each can contribute accuracy, this doesn't seem to be such a formidable list.

First, we eliminated the errors due to refractive errors of human eye on the assumption that it is a constant as long one individual does the shooting. Of course, the effects of ractive errors can be eliminated by sight adjustments.

Second, we could minimize the errors due to the sighting tem by the use of an optical sighting device carefully adted to eliminate parallax errors, the principal factor which can vary from shot to shot, and determine by test the probable magnitude of errors due to astigmatic, optical and mechanical errors of the sighting system. A 15-power Unertl scope was purchased and, after testing, we tentatively assigned a value of zero due to errors of the sighting system.

Third, the errors due to atmospheric conditions could be eliminated if we had an indoor 100-yard range. Unfortunately, one was not available, so we decided on the next best thing—that all shooting be done in the evening so that ground and air temperatures remain relatively constant [errors due to atmospheric pressure changes (barometer changes) are ordinarily slow enough not to be a factor over the period of time needed for a 40-shot string] and consequently can be eliminated by sight adjustments. We couldn't control wind so we did the best we could and picked evenings when wind was negligible. After a workout with wind deflection formulas, we decided to assign a value of .1 inch of errors due to wind drift.

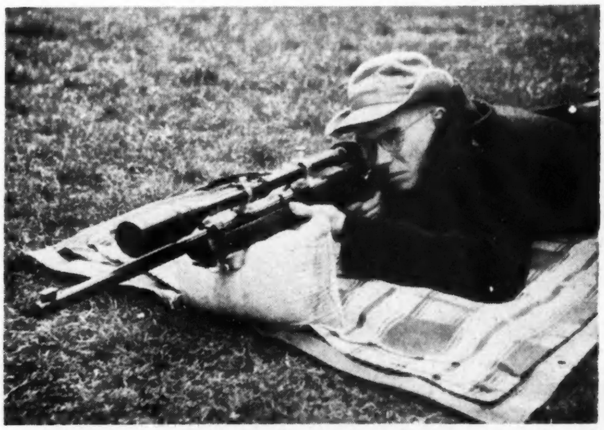


Fig. 1: Author's son in firing position with sandbag rest from which all groups were fired in the attempt to bed his rifle for accuracy

Fourth, some way had to be devised to keep errors of hold to a minimum. A machine rest was not available, so is was decided to use a sandbag under the fore-end and the toe of the stock, putting the sling under the fore-end sandbag so that a tension of about twenty pounds is placed cn the fore-end. The setup used in firing all test groups is shown in the photograph (Fig. 1). Using this position with extreme care, we decided to assign tentatively a value of zero due to errors of hold.

As to errors due to ammunition, investigation revealed that match ammunition is loaded to hold the variation in muzzle velocity to limits of plus or minus fifteen foot-seconds.

Calculating the trajectory curves for muzzle velocities of 1115, 1130 and 1145 foot-seconds revealed that a variation in impact of .6 inch might be expected due to ammunition variations. All groups were fired using one make of ammunition (Super Match Mark II).

If we had believed the advertisements about the sixth factor, the rifle, we should have assigned a value of zero to it, but to be pessimistic we gave the rifle .3 inch.

Evaluating our equation, we find that with the values tentatively assigned 1-inch groups should result. Next we had to decide how many shots we were going to use in evaluating results. The data that we used in evaluating our first equation was certainly empirical so it was decided to use forty consecutive shots as the basis for determining accurate grouping. After all, 400-40X would be a pretty good score in any match.

Came the first evening when atmospheric conditions were good and, with some confidence as to the probable results, the first groups were fired. Targets 1, 2, 3 and 4 are the results (Fig. 2). Statistically, the forty-shot group added up as tabulated in Table 1, all measurements being center to center of extreme shot holes.

Table 1	*Extreme Horizontal (inches)*	*Extreme Vertical (inches)*	*Mean Radius (inches)*
Target 1	2.16	1.34	.70
Target 2	2.12	2.16	.93
Target 3	2.20	1.34	.59
Target 4	2.28	1.14	.62

Average horizontal spread 40 shots	2.29	inches
Average vertical spread 40 shots	1.49	inches
Average mean radius spread 40 shots	.712	inch

It didn't take more than a perfunctory examination to see why the 86's were common and I had no comment to offer upon seeing the 'I-told-you-so' look on the face of the shooting member of the team.

It was pretty obvious that something had to be done about the situation. The adjustable barrel band must have been put on the rifle for use in making adjustments, so the barrel band screw was taken up three-quarters of a turn. Another ten-shot group was shot, the group size and general configuration being similar to the first four groups, though it was disconcerting to see that the center had dropped two inches and moved to the right one inch.

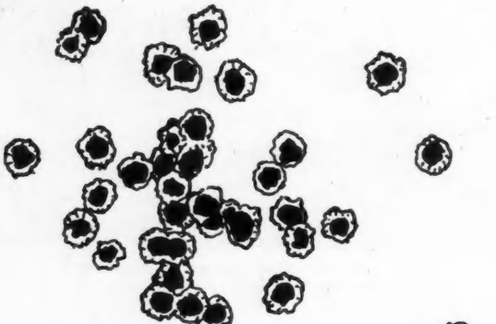
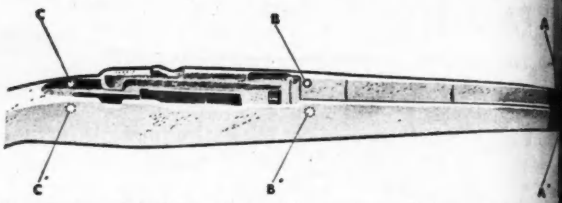


Fig. 2: The 2.29 x 1.49-inch spread of this forty-shot group explains why the author decided to investigate the bedding of his son's rifle

The rifle was disassembled, and we were a little surprised to find that the barrel and action were not bedded in a c ventional manner. A probable explanation as to why point of impact changed with adjustment of the barrel b



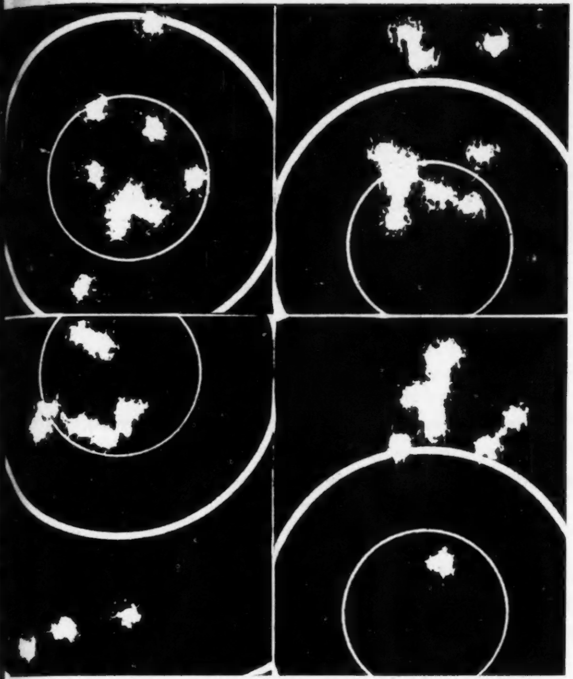
Examination of bedding of the rifle stock revealed six rubber i upon which action and barrel rested, probably explaining the shifti point of impact which occurred with each adjustment of barrel b

was immediately apparent (Fig. 3). When the rifle in place in the stock, the barrel rests across four po A and B and A^1 and B^1 (actually two sets of rubber neoprene inserts approximately ⅜ inch in diameter). immediately asked ourselves what happens when the act is pulled down by the front guard screw located just b of points B and B^1 and a downward pressure is put the barrel by means of the barrel band? The only th that can happen, of course, is that the barrel bows.

The first question that came to mind was, "Why did manufacturer bed the rifle in this manner?" To the wri the answer seemed pretty obvious—assembly line producti and economics. It certainly wouldn't take as long put six rubber inserts in a stock for the barrel and acti to rest upon as it would to bed the action solidly in wood of the stock. It was also obvious that if the acti was bedded solidly in the wood, there would be no n for inserts B and C and B^1 and C^1 and even though inserts A and A^1 were left in for a fore-end bearing surfa the possibility of deforming the barrel due to the sheer str placed on it from the barrel band would be considerably duced. It was decided to go ahead and bed the rifle in manner that all authorities seem to agree was the correct w

It isn't necessary to go into the details of how to the action into the stock as there is considerable literat on the subject. We followed the instructions on pages 1 187 and 190 of *The Rimfire Rifleman* and made a bedd tool as pictured on page 187 (carefully saving the rub inserts as insurance in case we had made a bad guess). Af the action was bedded in the stock, the guard screw bushi filed down so it didn't touch the action, and shims ma to place under the trigger guard so the loading clip co be inserted without binding, the fore-end rubber inserts w sanded down so that when the action was pulled do with the guard and tang screws the barrel rested with j enough pressure on the inserts so that about five- or ten-pou pull would separate the barrel and fore-end.

With the rifle assembled, being sure the guard and ta screws were pulled up tight, the rifle was firmly clamped do on a flat surface plate and by means of a Starrett gauge the barrel band screw was taken up until the b was just starting to put pressure on the barrel. This to be considered the neutral position from which all furt settings were to be referred. At this point, we were quite so optimistic as we had been previously, being pr sure that a reference point was going to be needed. first of what was to prove to be a long series of trips the range was made and the first test groups were f with the rifle adjusted to the neutral or reference posit Table 2 of targets 5, 6, 7 and 8 (Fig. 4) are the results.



g. 4: After bedding rifle in orthodox manner, these groups (exact s) were fired with a neutral band setting. Groups show about fifty pernt improvement in accuracy attained before rebedding action and barrel

able 2	Extreme Horizontal (inches)	Extreme Vertical (inches)
arget 5	.71	1.38
arget 6	.78	1.97
arget 7	.67	1.14
arget 8	.75	1.65
verage horizontal spread 40 shots		.74 inch
verage vertical spread 40 shots		1.53 inches

Compared to the groups fired prior to the bedding job Table 1), these groups showed about fifty percent imrovement in accuracy, but they were still a long way from hat we had decided was the minimum accuracy requireent. Remembering what happened when the barrel band as tightened, it was taken up two and one-half turns (three mes the amount made when the center of the group moved inches). A ten-shot string was fired, and it was only ecessary to make a two-click adjustment in elevation on e sights to center the group over the ten-ring. It began to ok as though considerable progress had been made. A orty-shot string was then fired with the adjustment and rgets 9, 10, 11, 12 (Fig. 5) and Table 3.

able 3	Extreme Horizontal (inches)	Extreme Vertical (inches)
arget 9	1.30	1.18
arget 10	1.77	.94
arget 11	1.38	.67
arget 12	1.42	.78
verage horizontal spread 40 shots		1.47 inches
verage vertical spread 40 shots		.895 inch

The group was somewhat smaller, but the major and minor es had reversed from what they were in the previous ing. Note in Table 2 that the length of the horizontal is for the composite group is .74 inch and in Table 3 the rizontal axis for the composite group has a length of 47 inches, or almost exactly double. About the same ect is to be noted about the vertical axes, a most peculiar ate of affairs, but we came to the conclusion that some place between the two settings of the barrel band we should be able to find a setting that would produce an equal change in both axes which in turn would result in groups of 1 inch or less. We then backed the barrel band adjustment screw out one and three quarters turns and fired ten sighting shots. It was necessary to move sight settings down two clicks, which is about the same as was required when the adjustment was changed a full two and one-half turns, but we had to take five clicks left windage. This was somewhat disturbing as it indicated that the barrel band was exerting pressure on the barrel both laterally and vertically, which meant that we might not be able to reproduce results if we should find it necessary to return to a previous setting in order to find the optimum. We fired our next forty-shot string, which resulted in targets as tabulated in Table 4.

Table 4	*Extreme Horizontal (inches)*	*Extreme Vertical (inches)*
Target 13	1.18	1.34
Target 14	1.10	1.49
Target 15	1.06	1.53
Target 16	1.10	1.77
Average horizontal spread 40 shots		1.11 inches
Average vertical spread 40 shots		1.53 inches

Comparing the groups, it can be seen that they have the same general shape as the groups of Table 2 with vertical stringing. However, the ratio between the major and minor axes is starting to approach unity, which is the end result we are looking for. We thought that we were not too far away from 1-inch groups, but the thought proved to be somewhat optimistic because we started juggling barrel band settings back and forth. In a series of 300 ten-shot test groups, it proved impossible to ever duplicate results by returning to what we thought was an exact previous setting of the barrel band. We were poorer to the amount of 6,500 rounds of ammunition, but wiser in that we had convinced ourselves that there was more to bedding and accuracy than meets the eye. *(To be concluded.)*

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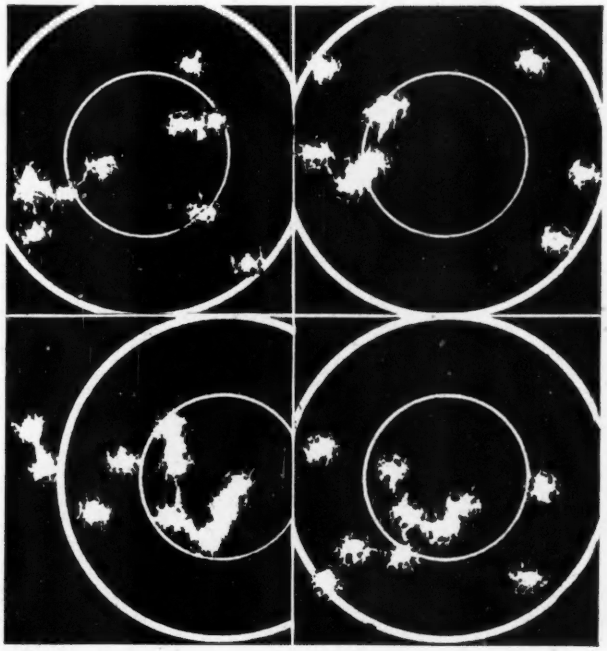
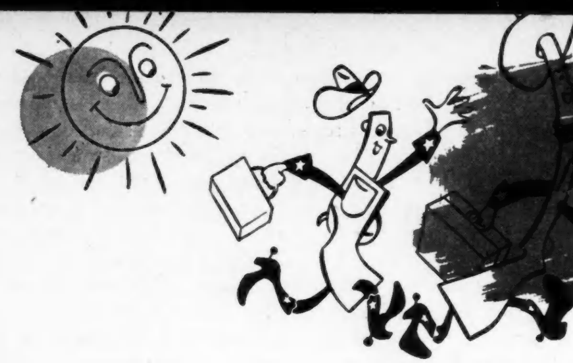


Fig. 5: A two and one-half turn band adjustment reversed lengths of horizontal and vertical axes of these groups from groups in Fig. 4. Results desired of tests are small groups with unity of measurement



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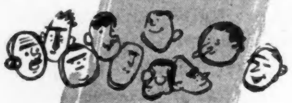
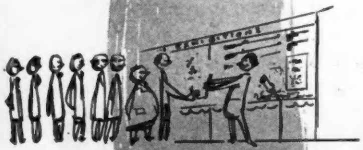
Highlights

General business sessions will be held at which members will hear experts speak on firearms legislation, national and regional competitive shooting problems, matters affecting rifle and pistol clubs and National Rifle Association

Every afternoon committee meetings and panel discussions will be held on a variety of subjects, including competitive programs, club management, and junior activities. They will be scheduled so members can attend several in one day



An integral part of each NRA Convention is the annual Members' Meeting, where any NRA member may take the floor to speak on any Association activity. One-third of the NRA Board of Directors are elected by vote of Life Members



A 'Commercial Row' will be established in Denver for the Convention. Approximately fifty exhibitors will have on display every gun and gadget, sight or accessory to fascinate the gun lover. Technical lectures and visual demonstrations will be held twice nightly in a modern exhibit hall

Shooters visiting Denver for the first time will find it a homelike city of western charm set in a breath-taking vista of Rocky Mountains. Many shooters will be attracted to the Redfield Gunsight factory, the home of Heiser leather products, and the Colorado School of Firearms, in or near Denver

Social highlights of the convention will be the NRA Mem bers' Banquet with a speaker of national prominence, and western-style barbecue complete with all the trappings an color, camp fires and buffalo steaks. At these events yo will meet the people who make up the shooting fraternit

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The second annual National Rifle Association Members' Convention in Denver this fall will provide a place for all NRA members to meet for mutual benefit and pleasure. At Denver a cross section of the NRA will meet in serious discussion, in good-natured banter, and in real fellowship. There will be small-bore shooters, gun collectors, handloaders, gunsmiths, hunters, gun traders and the other varieties of riflemen that make up your Association. They will exchange ideas and experiences, learn from and teach one another, and plan the future of the shooting game and the National Rifle Association.

Here are the highlights of the Denver meeting, the week of activities planned for you.

Of particular importance to Eastern and Northeastern shooters will be a Special Convention Train, at special rates for shooters only, which will take them in comfort to and from the Convention. Cars will originate at several eastern and northeastern points and make up into a 'shooters' train' in Chicago. The Convention Special will, at no extra cost to Convention delegates, visit en route such spots as the Will Rogers Shrine of the Sun, the Garden of the Gods and Colorado Springs, arriving in Denver the morning of the opening of the Convention

PLAN NOW TO ATTEND!

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OCTOBER 17-21

DEATH AT A DISTANCE

A Discussion of Wound-Ballistics

By ALEXANDER C. JOHNSON, M. D.

A DISCUSSION ON the damaging effects of the impact of high-velocity missiles on living tissues may seem superfluous, not because the effects are so well-understood but because the effects themselves are so obvious. It is apparent from most articles on hunting that the writers have no sound knowledge of the anatomy, physiology and ballistics involved in an understanding of the effects of bullet impact, and they arrive at totally erroneous conclusions or fall back on the peculiar trait which makes people attach high-sounding names to things they do not understand well. We have in common usage such terms as 'hot-blooded' or 'cold-blooded' to explain apparent differences in animal reaction to a bullet wound. We also hear such meaningless terms as 'killed by shock' or 'killed by paralysis' used to explain the effects of ultra high-velocity missiles. It seems that a critical analysis of the various anatomic, physiologic and ballistic factors involved in tissue damage and death as they are inflicted by a bullet might be of practical interest to hunters.

In order to approach the problem in a logical manner it is necessary to separate the various factors, each of which may alter the result of a bullet wound.

1) Wound Factors:
    a) Anatomy
    b) Physiology
2) Ballistic Factors:
    a) Caliber, weight and sectional density of the bullet
    b) Velocity, linear and rotational
    c) Bullet construction and shape

Let us consider the anatomical and physiological aspects of wound ballistics together, the two being inseparable since physiology is simply the function of anatomy.

It is obvious that the same *extent* of injury varies in effect depending on the *location* of the wound—hence, assuming constant ballistic factors, the lethality of a wound of given size is related only to the anatomical structures damaged. Generally a bullet wound of the heart is rapidly fatal while a wound of identical extent involving only fat and muscle, say of a leg, would not be fatal of itself.

If a bullet wound is in a relatively unimportant area such as the abdominal cavity, death results, if at all, depending on the *extent* of tissue damage and blood loss. The lethal effect of wounds of such a region is increased by multiple wounds or by altering the ballistic factors to produce a more extensive wound.

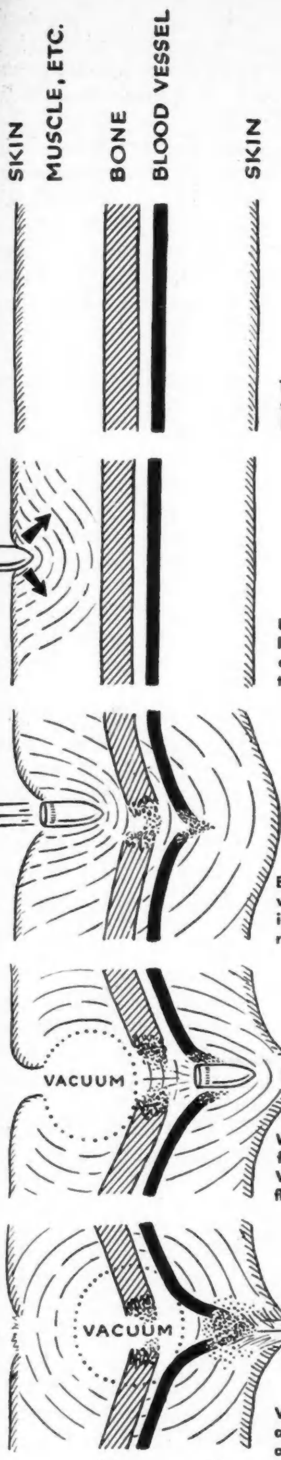
We find that the two features which determine the immediate result of a missile wound are (1) its location, and (2) its extent. Of the two, the location is of vastly greater importance since even a large wound of a relatively nonvital area will often fail to stop the animal until he has travelled into the next county. Conversely, a small wound in certain vital areas may be almost instantly fatal.

A detailed anatomical study of these vital areas is obviously not within the scope of this paper, and, as a matter of fact, is not of importance to the hunter beyond a knowledge of where he can most effectively place his shots.

The statistical study by John S. Rose (page 21, RIFLEMA December 1947) confirms what I have long contended—tha the spine shot is the most effective for dropping an animal in it tracks. Do not misunderstand—I said drop, not kill! Th reason for the effect is that one of the spinal cord functions is t conduct nerve impulses controlling voluntary motion from th brain to the many nerves leaving the cord, each going to ce tain muscles. The spinal cord is essentially an electrical cabl and therefore injury to it produces immediate paralysis (lo of voluntary motion) of all muscles controlled by nerves fro the cord below the point of injury. The extent of paralysis i therefore determined by the site of the spinal cord injury. I the injury is behind or tailward of the shoulder, the trunk an hind legs are paralyzed; if it is just in front of the shoulde (where the nerves to the forelegs leave the cord) all four ex tremities are paralyzed, though head and neck motion are sti possible. It is only the spine shots in the upper neck regio which are rapidly fatal, because they produce a paralysis o respiration. While the spine shot alone is not fatal except a noted, it is a most effective wound in those cases in which fat damage to other nearby structures has not been inflicted b cause the game is rendered helpless for a deliberately place second shot. This may seem like splitting hairs to a layma but there is some value in knowing the effect of a neck shot i circumstances where it is imperative that the game be anchore on the spot, as in mountain hunting. In addition, let me ad a word of warning. Do not forget that an animal dropped i its tracks by such a wound may still be able to bite or wield h antlers, as a few hunters have probably discovered.

Of great importance, likewise, is the chest region since inju to the heart or to the large blood vessels entering and leavi it is attended by such violent hemorrhage that death fro circulatory failure follows rapidly. Generally a heart sh on a standing animal will drop it in its tracks, but if the bea is frightened or angered it may be several seconds before t loss of effective circulation to the brain results in unconsciou ness. In several seconds a frightened deer, for example, ma travel a considerable distance. Also of significance in wound of the chest cavity is the extent to which the lungs are dan aged. Chest wounds may produce death by loss of blood, inte ference with respiration, or both. The effects, therefore, lung wounds vary greatly. If the damage is near the centr part of the lung, death is usually rapid because of hemorrha from the large blood vessels in the region connecting lungs an heart. On the other hand, wounds of the outer portions of t lungs may be nonfatal, or worse they may permit the wound game to escape only to die later from more gradual, prolong blood loss. Practically speaking, wounds of the chest, partic larly of the forward part, are very effective because a combin injury to heart, lungs and great vessels is generally produced.

Wounds of other regions of the body are frequently no fatal, and where they do prove fatal it is generally due to p longed hemorrhage insufficiently rapid to prevent escape of animal. Considered from the practical viewpoint of hunter, it is apparent that the wound should be inflict anatomically, at a point where death follows as rapidly as p



This diagrammatic sequence shows effect of high velocity missile on a limb

Upon impact with flesh, bullet slows down while waves are propagated at essentially undiminished velocity

Bone is fractured by waves without bullet even touching it. Heavy bones may require direct hit to break

Wound of exit occurs before bullet leaves tissue. Vacuum cavity is left in flesh by tissue displacement

Vacuum cavity is largest after the missile has passed out of flesh because of tissue inertia and momentum

After passage of bullet bone and tissue fragments fill cone-shaped path. Hemorrhages surround bullet path

sible, both for humane reasons as well as to prevent the escape and waste of mortally wounded game.

On the basis of the foregoing anatomic and physiologic principles it is obvious that the critical area includes the head and neck and the upper and forward chest regions. The ideal point of aim in a broadside shot is just behind the shoulder above the classic point of aim for a heart shot and just below that for the spine. If hold and range estimation are correct, a rapidly fatal wound of the great vessels in the region between the spine and heart vertically and the lungs laterally is produced. Some degree of heart and spinal cord injury may also occur due to the effects of missile velocity, which shall be considered later. The point of aim allows the greatest leeway for errors in hold or range estimation as it is the center of a region in which wounds of even small *extent* are generally fatal.

Someone is now probably saying, "But this does not explain why, for example, one animal may run for some distance and another drops in his tracks, when both have apparently been shot in the heart!" On the contrary, it does. The reason for the apparent inconsistency is largely due to the inclination of the nonmedical hunter to group together all animals shot behind the shoulder as being 'shot through the heart'. As a matter of fact both animals may actually have heart wounds but there is a world of difference in the effects of various wounds of equal size involving different anatomical structures of the heart.

In the post-mortem study of human wounds, including those due to missiles, the cause of death is usually easily explainable in terms of the anatomical damage observed and the known physiologic effects of the damage. The same is true in nonfatal cases where the nature of the anatomical damage may be observed during surgical repair. I have had, for example, surgical cases which survived without serious disability axe wounds or bullet wounds causing severe damage to certain parts of the brain; yet, I have had others who died rapidly from much smaller wounds, such as inflicted by an ice pick. Again I emphasize, it is all a matter of *location* and *extent* of the anatomical damage and the same principles apply to all species of animals.

What, then, is the scientific basis, if any, behind the terms 'hot-blooded' to describe an animal that is relatively easy to kill as compared to a so-called 'cold-blooded' animal as being one difficult to kill? The terms imply some relationship to body temperature, which can be dismissed by the simple fact that there are only slight differences in body temperature between the various mammallian species, and such small differences as there are cannot be correlated with the variable effects of wounds inflicted under hunting conditions. The differences are not due to any such physiological difference but rather to certain anatomical differences of a quantitative sort which make the infliction of a wound of fatal location and extent more difficult in certain species. If this were not so, one weapon would suffice for all game, but such is not the case and the same .220 Swift that scatters a crow all over the landscape would only inflict a superficial wound in the massive hide, fat, and muscle of a rhinoceros. Obviously, differences in size and weight of animals of the same species will alter the capacity to inflict a fatal bullet wound. The same proportionate degree of anatomic and physiologic damage will have the same effect regardless of the species of animal and regardless of how damage is produced.

There are, however, set physiologic conditions which do alter to some extent the response of an animal to a wound. The conditions vary within the individual animal from time to time, but they vary only in degree between different species. I am referring to the physiologic changes which occur in response to fear or anger. Under such circumstances, by means of certain nervous reflexes and the release of adrenaline into the blood, the heart rate, blood pressure and respiratory rate are increased, and blood circulation to less important organs is partly transferred to the brain and muscles. In other words, the animal becomes prepared for flight or fight. This explains why a frightened or angered animal may run for some distance or attack ferociously, even though severely wounded, before succumbing. The physiologic changes are essentially the same whether induced by fear or anger, therefore the tendency of certain species to run and others to attack is of little importance.

A few words now about the terms 'paralysis' and 'shock' as they are used by hunters. Paralysis, as we have mentioned, is a loss of voluntary muscular action. Of itself it does not cause death except when the injury also paralyzes the muscles of respiration. Shock, in the strict medical definition of the term, is the physiological state of low blood pressure, rapid pulse, rapid respiration, stupor and eventual loss of consciousness. So far as the medical application of the term to the effects of a bullet wound is concerned, it is the result of severe blood loss. The word 'shock' as used by doctors has no reference to the force of a blow. If the hunter wishes to apply the term to the disruptive or concussive effects of high-velocity missiles on body tissues, there is no objection except that no one else knows exactly what he means without further explanation.

Ballistics Factors

Just as there are many unfounded ideas concerning the wound factors in producing death by small-arms missiles, there are even more strange ideas concerning the exterior ballistics involved. They range all the way from the gun nut who swears he can tell you the one and only weapon and load for hunting stray cats—based, of course, on caliber, bullet weight, velocity, sectional density and other factors, to the old-timer who asserts just as strongly that his old 'thutty-thutty is the best shootin' arm made for everything from mouse to moose!'

It is not my purpose to discuss particular weapons, cartridges or loads, only the general ballistic properties of the bullet in flight as they apply to its ability to wound. Accuracy and flat trajectory are of importance so far as the most effective use of the weapon by the hunter is concerned, but I shall confine the discussion only to those ballistic properties which are directly concerned with the mechanism of wounding.

It has been pointed out that the effect of any bullet wound is directly related to its location and extent. Since the location of the wound concerns the accuracy of the weapon and ammunition plus the skill of the rifleman, let us direct attention chiefly to the various ballistic properties which produce the wound, from point of entrance to point of arrest or exit. These ballistic factors as previously outlined are: Caliber and weight of bullet (hence, also sectional density), velocity (linear and rotational), and bullet type (shape and construction).

First, what is the effect of bullet diameter alone? This can be illustrated by supposing a bullet could be passed slowly through the body of an animal. It is apparent that the bullet would produce a wound channel between wounds of entrance and exit no larger than the diameter of the bullet. As a matter of fact, such is the case to a considerable degree with very low velocity missiles. For this reason caliber is of great importance in the relative effectiveness of handguns in which all velocities are comparatively low. The comparable killing effect of various handgun calibers is well shown by the experimental work described by Hatcher (*Textbook of Pistols and* *volvers*) in which the .45 pistol was proven far more effe than various smaller caliber cartridges in tests on cadavers living beef cattle.

Bullet weight is of importance because of its relationshi penetration. The reason is the fact that penetration dep on momentum, which is the product of weight times velo assuming of course that bullet shape and tissue resistance the same. Therefore, with bullets moving at the same ve ity, the heavier the bullet, the greater will be the penetrat Without attempting actual quantitative values the equa may be given as follows:

$$M = W \times V$$

Penetration is proportional to M minus

Where M = momentum
W = weight of bullet
V = velocity
R = resistance to penetration due to the tis and bullet shape.

By appropriate substitution we may explain the effects sectional density of the bullet, which is the ratio of bu weight to diameter. Thus, when two bullets are of e weight but different caliber, the one of smaller caliber has greater sectional density. Obviously among bullets of the s diameter but different weight, the sectional density varies direct proportion to the weight.

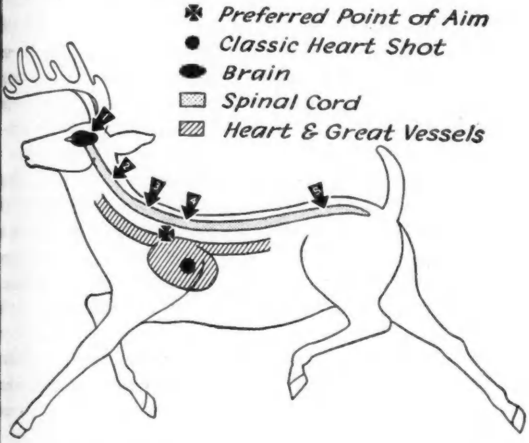
It is well-known that bullets of greater sectional den have greater penetration, which is true in a general way. gathers from various articles on firearms that penetration mysterious quality of sectional density itself, rather tha simple matter of momentum and resistance. For example we take comparably shaped bullets of the same weight different caliber, and drive them at the same velocity, bullet of the smaller caliber (hence, greater sectional densi will penetrate further because the tissues offer less resista to the smaller cross-sectional area. In other words, it's ea to stick a needle in your finger than a nail!

Turning our attention now to the matter of velocity, shall find that it is the most important single factor in de mining the severity of the wound. As we have shown, a l velocity missile produces a track through the tissues onl little larger than its caliber (because even a so-called l velocity bullet is still moving quite rapidly). As we incre the velocity of a given bullet, the wound which it creates comes proportionately greater.

This can be easily demonstrated to one's own satisfaction handloading full-jacketed bullets (to minimize the effect bullet deformation) in a series of increasing velocity loa The effects on gelatin blocks, or any similar semi-solid stance resembling body tissues, are obvious. Or more sim compare the actual effect of a .22-long rifle bullet on a cr or jack-rabbit with that of a .220 Swift. The bullets are different weight and construction but the difference can contradict the explosive disruption of tissues produced by more than 4000 foot-seconds velocity of the Swift. For t who are still not convinced that a large part of the wo effect of a bullet is in direct proportion to velocity, just loading your pet Swift or Varminter down to 1100 f seconds and see if you have anything better than an ordi .22 long rifle!

My fellow Arizonian, Jack O'Connor, has editorially marked that he wondered just how far the substitution velocity for bullet weight might be extended. *Theoreti* there is almost no limit. It is not so far fetched an ana as it might seem to refer to the atomic bomb, which de s energy from the tremendous velocity of the infinitesimal rticles released by atomic disintegration. By the same token, ere is no reason that very light bullets driven at tremendous locities would not be violently effective. The problem is tirely a technical one of developing barrel steels and bullet nstruction and design to withstand the heat and stresses of ch velocities as well as the weapons and propellants to attain em. No, I do not advocate the use of present-day high-locity small-bore weapons such as the .220 Swift for large me (though up to 100 yards it's a devastating deer killer), t the fault is largely one of inadequate bullet design and nstruction, of which I shall say more subsequently.

What then is the mechanism by which the velocity factor fects the extent of tissue damage? If you will observe a ip moving through the water you will notice how it sends a ave to each side from the prow. The wave represents fluid splaced by the vessel. The faster the vessel travels, the icker the water is displaced and the larger the wave proced. Physically the phenomena is identical to the wave of mpressed air (sound wave) seen in spark photographs of llets in flight, but with one important difference. The air compressible and air waves are rapidly dissipated, while quids are almost incompressible and the waves are propagated most without loss. Hence, when a bullet strikes body tissues, hich are essentially liquid from the standpoint of the physics volved, a wave is produced in the tissues exactly as from the ow of a ship. The faster the ship (or bullet), the greater e waves. The waves are propagated in almost undiminished rce throughout the tissues, finally being dissipated at the dy surface. This accounts for the wound of exit being larger an the wound of entrance, which shows the relative harmssness of the air wave compared to the violent effects of the id wave on body tissues. As higher and higher velocities e reached, the distribution of waves of force is more wideread, and they are released less readily at the adjacent body rfaces. Since the waves move without diminution through e tissues at impact velocity of the missile while the missile elf is being slowed down by the tissue resistance, the wound exit is actually an explosive release of the wave at the body rface before the bullet actually emerges from it. For this ason the waves of force may be widely distributed soon after the initial penetration of the missile, and such is the explanation of the explosive effect of a Swift or Varminter bullet on a crow, the waves of force being released from almost its entire 'fluid' body at once, sparing the solid parts such as the head, wings and legs. These remarks, I assure you, are not idle speculation. Considerable research in wound ballistics was done during the recent war, demonstrating the forces which I have described. I have seen, for example, micro-second X-ray photographs of the large vacuum cavity surrounding the missile track during the split second that the tissues were, in effect, blown outward by the concentrically expanding wave of force. Another showed the femur (thigh bone) of an animal being fractured by the fluid wave of a missile passing near to, but at no point touching, the bone.



legend above deer explains choice shots which inflict certain death n animal: 1) brain shot which is instantly fatal; 2) high spinal cord injury, rapidly fatal, which causes respiratory paralysis and paralysis of all four extremities; 3) injury to cord in front of heart is still high enough to cause paralysis of all four extremities; 4) injury behind heart causes paralysis of hind legs; 5) injury at lower extremity of spinal cord does not cause paralysis

There is another form of velocity which likewise has considerable, though less constant and predictable, influence upon the wounding potentialities of a bullet. I am referring to rotational (spin), as differentiated from linear (forward), velocity. It is rotational velocity which imparts gyrostatic stability to the bullet in flight. Since the linear velocity of the missile is rapidly reduced by air resistance, while rotational velocity is affected only slightly, the ballistic property of spin is of great importance at long range where linear velocity may be very low. The wounding effect imparted by rotational velocity may be illustrated by knocking over a smoothly spinning top and observing the wild gyrations it makes before coming to rest. Such is the result when a well-stabilized bullet strikes tissues in such a manner that the balanced forces about a constant rotational axis are unbalanced about constantly changing centers of rotation. The often noted unreliability of full-jacketed bullets for hunting purposes arises from the fact that only if the missile strikes bone or cartilage is its gyrostatic stability affected. It should be noted also that the effective expansion of hollow-point and soft-point bullets is largely dependent on the centrifugal force of high rotational velocity. It is for this reason that most handgun loads, with their low linear velocity and slow twist, do not use hollow-point bullets effectively unless constructed with a very large thin-walled cavity.

If technologic advances permit small missiles of suitable design and construction, for example a 60-grain .22-caliber streamline-shape missile of insulated core and strong heat-resistant jacket (double jacket of outer gilding metal and inner tungsten alloy?), to be propelled at 15 or 20,000 foot-seconds, I would feel well-armed hunting any animal in the world, though I am not sure there would be enough trophy left to hang on the wall!

Some readers are probably wondering why all the bother about specialized bullet construction of expanding type if velocity is so much more important. The explanation is simply that bullet construction is not advanced to the point where bullets are strong enough to prevent disintegration on impact even at present-day highest velocities, thus producing superficially located wounds poorly effective on larger game. In addition to the inadequacy of bullet construction, the weight of bullets with which velocities of over 4000 foot-seconds may be achieved gives insufficient momentum to sustain its high velocity through heavy hide, muscle and bone of large game animals. No, I am not contradicting my previous assertions concerning the substitution of velocity for bullet weight, as we shall see by referring again to the physics of momentum. Penetration is proportional to momentum, assuming tissue resistance to be constant. Thus, a 50-grain bullet would require 9000 foot-seconds to have the same momentum as a 150-grain bullet at 3000 foot-seconds. Even *(Continued on page 30)*

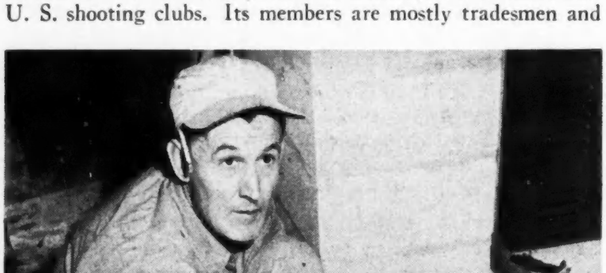
SHOOTERS' SHANGRI-LA

How One Club, Unable To Obtain Adequate Range Space, Came Up With A Big-League Shooting Layout

By RAY STANN

WHAT WILL BE the best rifle club shooting layout in the country is springing up in a little town called Libertyville, Illinois—one jostling hour by elevated train from Chicago's bustling Loop. It will be the best because it was designed that way and because it is being built by folks with enough gumption to get it with money and hard work. That alone justifies this report since those commodities are still entirely too rare in a sport which is not noted for staging its activities in big-league surroundings.

The Libertyville Gun Club, to begin at the beginning, is basically no different (and certainly in no better financial circumstances, collectively or individually) than most other U. S. shooting clubs. Its members are mostly tradesmen and small businessmen—some who make their living in Libertyville; others who'll swap two hours of jostling a day for fresh air, quiet and small town atmosphere. And, in its eight years of existence, it has run the gamut of normal club housing problems—rented basement, condemned theater, abandoned chicken hatchery, shared quarters.



With other members pitching in to help, Al English, a tinner by trade, installed all heating and ventilation ducts in Libertyville clubhouse

It is no trick to speculate as to what went on in the minds of the twenty-odd club members as they went along in their never-ending quest for a place to shoot. Most clubs and shooters, weary of being shunted from pillar to post and of the eternal bickering with landlords, zoning officials, and irate neighbors, harbor an idle dream of a shooter's Shangri-La which the world must move around instead of over. Yet, in that portion of the human mind which seasons desire with caution, there must have been the restraining influence of thoughts of club indebtedness and responsibility. How many clubs succumb irrevocably to the restraining influence can never be known, but they are many.

So here was a group of Libertyville sportsmen, relatively unconsidered (as a group) in their community, pursuing their avocation with two thoughts paramount in their minds—fi getting a place to shoot and, second, establishing a social cen for themselves, their families and their friends. True, th latter consideration takes on added importance in a small co munity where after-hours activity must necessarily be limit to a few hands of pinochle, a couple of beers at the tavern, the American Legion stag, but, the Libertyville group wis reasoned, if our entertainment money is put into our club, can eat our cake and have it too.

Prime mover of the ambitious enterprise was smallish, f loving Libertyville electrician, Frank B. Mason, who tra ferred his dream to paper, painstakingly drafting his idea o clubhouse-range which would be the ultimate in operati efficiency. A meeting was called in the basement of the Maso big frame house where, amidst coffee and a bountiful buff the plan was unveiled to enthusiastic members. The restra ing influence went out the window under impetus of the sounding adoption of proposed new by-laws (another prod of the indefatigable Frank Mason) which called for initiation fee payment of $100 per member. The reorgani tion was complete. Now—sell memberships, locate proper and build.

Sell they did, 42 memberships—$4,200. Mason, himse with the courage of his convictions, added substantially m than that from his personal holdings, which the club w return from the fees of new members and operating profits the future. Ultimate goal is one hundred voting memb each with only one vote apiece regardless of their perso investment. After that only associate members will be mitted.

Property was located about three miles from town, acres of poorly drained, soggy flatland that had been redu in price accordingly. Building restrictions were checked a the deed obtained. The members, ever opportunists, clea several roadside tracts safely distant from the range a clubhouse site and sold them as home lots, thus recapping least a portion of the purchase price and assuring themselves agreeable neighbors for the foreseeable future. In the fall 1947, the real work began.

One thousand feet of road was graded and gravelled. dragline threw up a bank 500 feet long and eight feet hi for the outdoor backstop and dug a hole to supply much-need fill for the firing line. A local manufacturer of end-load volunteered a demonstrator and four trucks to raise the fir line eighteen inches and to raise the clubhouse site. So 1,500 feet of creek was re-routed out of the way of the fir points, through a low spot north of the clubhouse where dragline dug a 100 x 40-foot pond. This will serve not o as an attractive picnic and playground area, but also as a sou of water supply for fire protection. Finally, the foundation the clubhouse and indoor range was dug, the forms set, an volunteer crew of twenty-four men poured 240 bags of cem

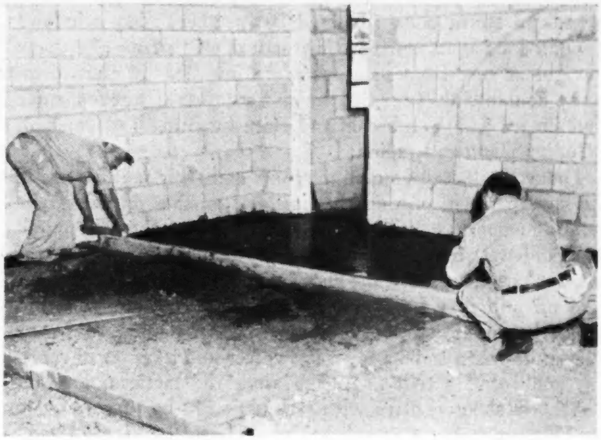
On May 1, 1948, building construction got started. C members, with no inconsiderable amount of help from o local citizens who were not members, and working e Sunday, laid 4,500 cement blocks by August 15th, insta air ducts and electrical conduits beneath the concrete fl he large roof over the range portion of the building was constructed of bowstring trusses which were built on the job by e only paid labor on the entire project. A local roofer helped mplete the job by donating tar kettles and his own labor for o days. Pressure of the work was lightened considerably uring this period by the wives who not only pitched in to lp, but whose understanding of the compelling force which spired such physical and financial contributions on the part f the male members still draws the club's warm praise. Best f all, they'll tell you, were the meals and snacks prepared on e spot for the volunteer crews.

The finished club is an attractive, modern, well-constructed uilding 85-feet long, 55-feet wide. The indoor range portion 66-feet long and 40-feet wide to accommodate ten firing oints. All ventilation, heating and light fixtures are built in r permanency and safety. It is divided from the clubroom by ment block wall to make it virtually soundproof. Spectators, ho must remain in the clubroom, may watch activities rough two large plate glass scope windows. No target car ers will be installed for the present lest they interfere with ns for staging frequent dances, shows and large parties in e range area.

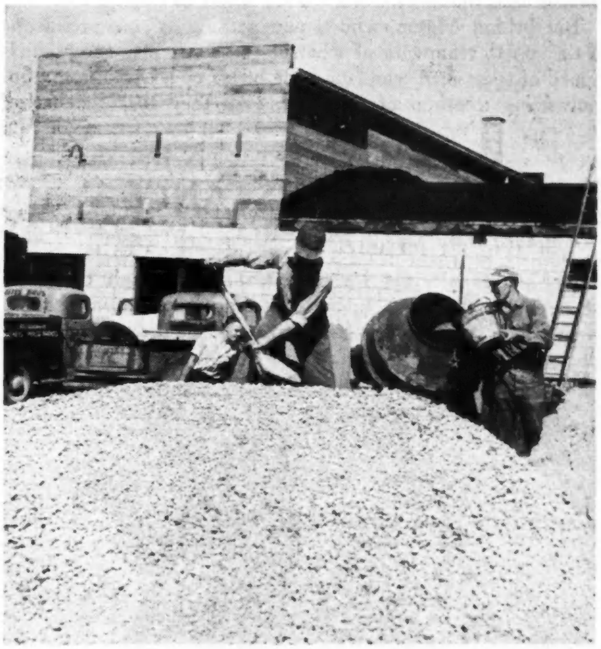
The clubroom, which measures 19 x 35 feet, is bright, com rtable and well-fitted, with twin seven-foot bay windows, direct lighting built into the ceiling, and a 42-inch fireplace ilt of Grand Canyon stone. Two of the walls are panelled in otty pine; the other two in scratched plywood. Other ac mmodations include an 8 x 12 foot office-storeroom with el bars on the window and steel door and frame; toilet cilities for men and women; a spacious kitchen; furnace room; d a five-room apartment on the second floor to house a rmanent caretaker.

How was all this accomplished? Well, the money helped, course. It is estimated that a little over $17,000 has been vested to date, but even that seems small in the face of a cent appraisal which places the value of the building alone $35,000. The rest is the result of contributions and skillful lunteer labor (some of the trades represented by members n the club's rolls include: bricklayer, cement finisher, plumber, nner, electrician, painter, glazer, cabinet maker, welder). f the contributions, here are some of the most notable:

Steel door and window bars (donated by non-member manu cturer); black marble fireplace hearth (two table tops from Fred Harvey restaurant, donated by Harvey's nephew); three ats of waterproofing on outside walls (donated by manu cturer); door jams, scope win- *(Continued on next page)*

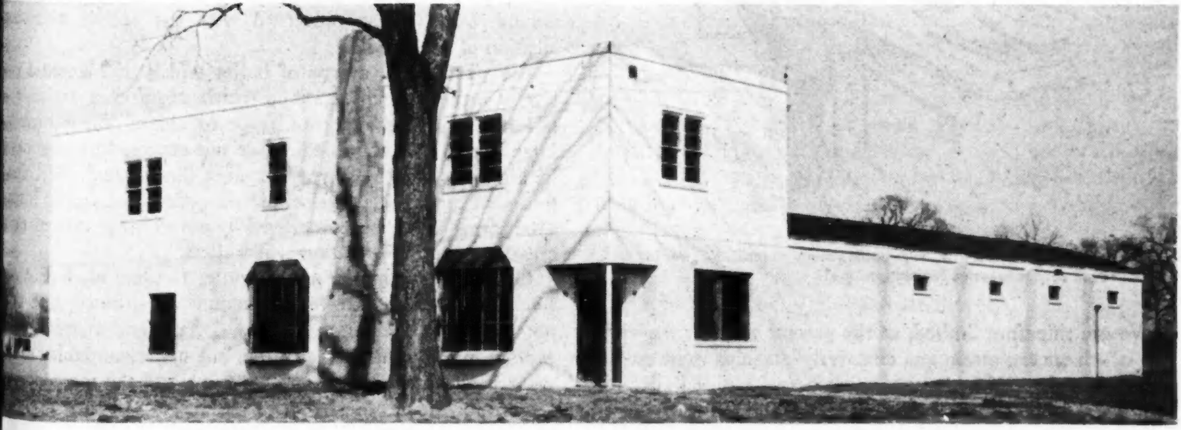


After other club members had installed air ducts and electrical conduits, volunteer crew poured cement floors in the clubhouse



Above: A brick layer, a cement finisher, a plumber and a painter were among members who directed volunteer workers in task of building clubhouse. Cement was mixed by club members using borrowed equipment

w: Recently completed, home of the Libertyville, Ill., Gun Club requires scaping and touching up inside before club members can organize planned adult marksmanship school and industrial rifle league



dows, and storm door (donated by member); bay windows (bought for $50: about one-third cost); oil furnace and ducts (bought at cost from manufacturer; installed by club member); double sink (donated by non-member); kitchen stove (bought for $10); clubroom and office furniture (all donated, including piano and radio).

Today the forty-two club members and their families are in the home stretch, putting the finishing touches on their trim shooting emporium, eagerly landscaping the spacious surroundings, and well into the ponderous job of final grading on the outdoor range, secure in the knowledge that their sacrifices have paid off and that from here on out it is all theirs to enjoy. What began as a not-so-idle dream in the mind of Frank Mason has risen to be a town showplace and a center of sporting and social activity. And Mason, the tactician and the club's best shooter, grins with satisfaction as he surveys it.

"What pleases me most," he'll confide softly, "is that I designed the layout and drew up the master plan—and never during construction was there any need for a change. Construction details? We'd work them out on a sheet of paper as we started each Sunday's work. That saved us money, too."

But behind Mason, who is now serving as club president, is the superb teamwork of what he terms a pretty exceptional bunch of sportsmen who lack none of his own enthusiasm. So convincing a group of salesmen were they that the entire twelve members of the Class A Eagle Club from a neighborin community joined up en masse.

Big plans and projects still confront the proud Libertyvil Gun Clubbers, however. With their eyes on the state championship matches and beyond that the regionals, they are loo ing toward an ambitious competitive schedule. Also on tap a marksmanship school for adults and a club-sponsored i dustrial rifle league. Now getting under way is their fir venture into the junior field, by which they hope to create new crop of members for the future. Hardworking club se retary, Charley Everett, points out that while the average ag of current members is still comparatively low (no membe over 50) this is one club that is regarded as a continuin project to be passed on to other generations of shooters.

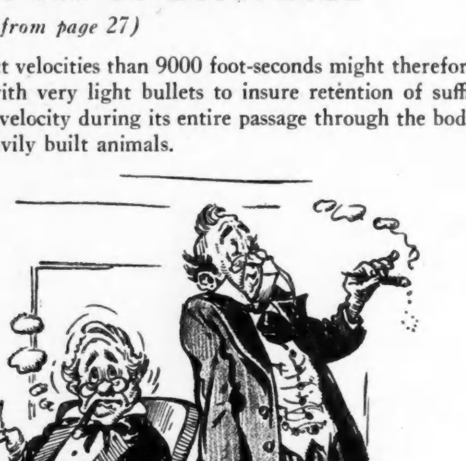
Will it pay off? They seem to think so and, from wha they've shown so far, who can deny it? The club is inco porated under the laws of the State of Illinois as a non-prof organization. Once it gets even, the members feel, the clu will run itself. Raising money seems to be no particular pro lem. Food and drink (beer only) sales, dinner parties, dance raffles, etc., provide a steady source of revenue and the club facilities are extremely popular with members and friend They figure to remain so; after all there's not much else to d

It's a real, big-league production. ◆ ◆

DEATH AT A DISTANCE

(Continued from page 27)

higher impact velocities than 9000 foot-seconds might therefore be needed with very light bullets to insure retention of sufficiently high velocity during its entire passage through the body of large, heavily built animals.



Frankly, Senator, if I had your voting record, I'd be in favor of antifirearms legislation, too!

We are therefore limited, at the present time, in the velocities which we can attain and effectively use, and we must seek other means by which the wounding capacity of a bullet may be increased.

The increased wounding effect of heavy bullets of larg caliber has been pointed out, but the effectiveness is gained the penalty of curved trajectory and heavy recoil. In order avail ourselves of the advantages of the flatter trajectory an lighter recoil of small-bore weapons of higher velocity, moder hunting bullets of various types are designed essentially expand on impact, thereby creating the effect of a larger calib bullet. It must be noted that expansion also reduces the se tional density of the missile so that premature expansion m prevent adequate penetration. Furthermore, while some fra mentation of the expanding bullet may create more extensi wounds, the effect is always superficial to the effect of t main portion of the missile. Why? Let us refer again momentum. We see that if the bullet were to break in ha each part would have the same velocity as the whole bul had but, having half the weight, each part would have on half the momentum, as well as increased tissue resistance to t irregular bullet fragments. Thus, a bullet that disintegrat excessively on impact may be poorly effective, as small fra ments have small momentum even at high velocities. Let not lose sight of the wound factors discussed in the first part this paper. We are not solely concerned with creating wound, but are also concerned with the precise anatomic location of the wound.

We want, then, a type of bullet which will expand eff tively without disintegration, which requires a balance b tween strength, velocity and type of animal for which it intended, so that the missile does not emerge but expends its kinetic energy in moving through the tissues. Within t limits of present-day velocities the effectiveness of hunti small arms can only be improved by use of large caliber or ' creasing caliber' expanding-type bullets.

Obviously, the ability of the hunter to place his bullet eff tively is still the matter of paramount importance, but this not an article on marksmanship. I have endeavored only explain in a logical and scientific, but understandable, man what happens when bullet meets game and the most desira regions for the meeting to take place. ◆ ◆

LEGISLATIVE Bulletin

A MONTHLY ROUND-UP OF CURRENT LEGISLATION

SINCE JANUARY of this year the National Rifle Association has studied carefully two hundred and thirty-five different ieces of proposed legislation, presented in state legislatures rom Maine to California, that concerned some phase of the anufacture, sale or use of firearms. Some of the proposed aws were necessary and desirable; all of them were well-eant. Of the total, fifty state bills were considered by the Association to be unduly restrictive, opposed to the rights of egitimate gun-owning citizens. These bills, which would ave made undesirable state laws from the viewpoint of the portsman, were opposed in one of two ways. In some intances a confusion of terms was all that kept a bad bill rom being a good one. In such cases a letter from the National Rifle Association to the state senator or representaive sponsoring the bill would often result in a simple change n wording that would safeguard the sportsman's interests. Where such an approach was not feasible, Legislative Bulleins, quoting or outlining the proposed bill, have been sent o all NRA members in the state concerned. Such Legislative Bulletins have been sent on forty-two separate bills. They ave been received within the past five months by two hundred nd fifty thousand NRA members. In some states there ave been as many as four separate bulletins required.

Not one antifirearms bill has succeeded in being passed gainst the public opinion that has been aroused and exressed. Members of the NRA, NRA clubs, and patriotic nd sportsmen's organizations whose aid has been enlisted, all eserve the credit for a job well done.

To a large extent the pressure is easing off now as more nd more state legislatures adjourn for one- or two-year eriods. This legislative roundup in THE AMERICAN RIFLEMAN will continue to report final action on important bills nd a running report on bills still pending in legislatures. n those states where the legislature has adjourned since the revious report, it is assumed that pending legislation died ith the legislature unless otherwise noted here.

alifornia—Assembly Bill 210, reported in March, would prohibit ossession of a loaded gun in a vehicle. *Action:* None.

Assembly Bill 1690, reported in April, would prohibit discharge f a firearm in urban areas. *Action:* None.

necticut—Senate Bill 184, reported in March, would prohibit posession of a loaded firearm in a vehicle. *Action:* Reported favorably y committee, recommitted on May 3rd.

laware—House Bill 280, reported in April, would prohibit possesion of loaded firearm in a vehicle or on a farm machine. *Action:* assed in House, reported favorably in Senate.

House Bill 285, reported in April, would impose ten percent tax n all sporting goods. *Action:* Stricken from the calendar.

House Bill 249, reported in April, would prohibit shooting of game ushed by farm machinery. *Action:* Reported favorably in House.

orida—House Bill No. 55 by Representative Charles A. Luckie of acksonville, would amend Florida Statutes to provide for forfeiture f firearms found upon a person arrested and convicted under any w or ordinance. Referred to the Military and Veterans Affairs ommittee of the House. *Action:* None.

nois—House Bill No. 712 by Representatives James W. Gray and harles M. Skyles would give Illinois a form of "Uniform Pistol Act" requiring all target pistol shooters to have special target shooter's license and restricting target pistols to those having a six inch or longer barrel. Referred to Judiciary Committee of the House. *Action:* None.

Massachusetts—Senate Bill 97, reported last month, would prohibit possession of firearms other than .22, in any place where deer might be found. *Action:* Replaced by substitute Bill No. 2392 from which all features objectionable to sportsmen have been withdrawn.

Michigan—House Bill No. 53, reported in March, would increase the fee for a license to sell, purchase, possess or carry firearms. *Action:* Passed in House, now in Senate.

House Bill No. 149, reported in April, would prohibit use of .22-caliber rifle in any area frequented by deer. *Action:* Passed in House but objectionable part of bill was removed by amendment.

New Hampshire—House Bill No. 327, reported in April, provides that the deliberate use of an artificial light to illuminate game by a person having a rifle or shotgun in his possession or in his automobile shall be sufficient evidence of illegal night hunting. Further provision is made for confiscaton of firearms and vehicles. *Action:* Killed in the House.

Ohio—House Bill No. 11, reported in March. *Action:* Passed in House February 21st. Now in Senate.

Oklahoma—House Bill No. 471 by Representative Joe R. Cannon, would require registration of all firearms except shotguns and .22 rifles. Referred to Ways and Means Committee. *Action:* Killed in House.

Texas—House Bill No. 409, reported in April. *Action:* None.

House Bill No. 403, reported in May. *Action:* None.

House Bill No. 655, by Representative A. W. Moursund would prohibit possession of firearms on public road or highway unless unloaded and cased. Referred to Committee of Criminal Jurisprudence. *Action:* No official action, unofficial reports indicate bill has been killed.

Wisconsin—Senate Bill No. 474 would revise Wisconsin criminal procedure. The objectionable change in the new wording, pointed out in the NRA Legislative Bulletin of April 15th, will be corrected by amendment to restore the original wording of the law. *Action:* None.

Assembly Bill No. 184, reported in April and May. *Action:* Passed in Assembly, now in Senate.

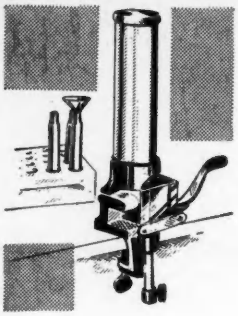
KNOW YOUR FRIENDS

Out of the fight against restrictive firearms legislation have appeared many friends of the sportsman in high places. Friends we might not have known if it had not been necessary to call on them for help, either in combating unwise gun laws or in convincing the Federal Congress of the importance of an adequate budget for the National Board for the Promotion of Rifle Practice.

These friends of the rifleman have written to members and to the NRA from the Federal Congress and from state legislatures to indicate their belief in the importance of the sport of shooting to national defense and to offer their support in resisting legislation that would unduly restrict the sportsman's right to own firearms and use them properly. They are the men who have taken a definite stand in our behalf, not the politicians who have weaseled by writing that, "I will carefully consider your views".

Some of these friends that have become known are listed here so that all NRA members may know them.

The list is not complete, of course. There are many more, whose names we do not yet know, who *(Continued on page 38)*



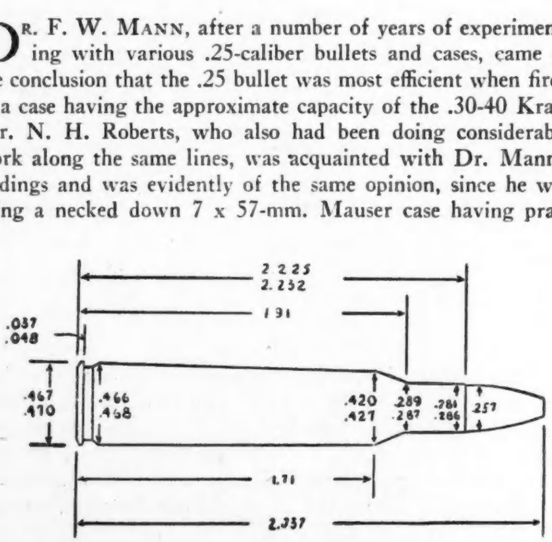
.257 ROBERTS LOADS

This article on handloads for the .257 Roberts is the third of an important RIFLEMAN *series covering the more popular American rifle and pistol cartridges. The first in the series was "Loads for the '06"* (RIFLEMAN, *April, page 28) and the second was "Handgun Handloads" (May, page 32).*

Preparation of the material for this article was handled jointly by the NRA's Al Barr and the H. P. White Company of Cleveland, Ohio (see RIFLEMAN, *November 1948, page 21). Five rounds of each of the twelve loads listed in Table 1 were checked for average velocity figures and the loads were tested for pressure in a barrel of .250-inch bore diameter, .257-inch groove diameter, 24-inches long, rifling one twist in ten inches, in a Modern-Bond Universal receiver. Velocities were measured on a Potter electronic counter chronograph. Room temperature was maintained at 75 degrees.*

☆ ☆ ☆

DR. F. W. MANN, after a number of years of experimenting with various .25-caliber bullets and cases, came to the conclusion that the .25 bullet was most efficient when fired in a case having the approximate capacity of the .30-40 Krag. Mr. N. H. Roberts, who also had been doing considerable work along the same lines, was acquainted with Dr. Mann's findings and was evidently of the same opinion, since he was using a necked down 7 x 57-mm. Mauser case having practically the same powder capacity as the .30-40 Krag.



The full and interesting story of the .257 Roberts can be found in THE AMERICAN RIFLEMAN, January 1935, in an article by Mr. Roberts. In brief, he tells of his desire to design a long-range .25-caliber cartridge and of his work with F. J. Sage on the project. They were ably assisted by Colonel Townsend Whelen, A. O. Niedner, L. C. Weldin of Hercules and many others before the birth of the commercial .257 Roberts as we know it today. As the result of experiments starting as early as about 1909, a cartridge was finally developed in the middle 1920's which became known as the .25 Roberts. The round was the 7-mm. Mauser case necked to .25-caliber with a 15-degree shoulder angle. The Niedn Rifle Corporation started chambering barrels in .25 Robe caliber for their customers about 1928. Griffin & Howe a added the caliber to their line in 1930. After a few years, M Griffin suggested to Mr. Roberts that the case length be creased about a sixteenth of an inch, thus making it unnec sary to trim the 7-mm. cases after resizing. This also increas the powder capacity slightly but made it necessary for chambers to be lengthened accordingly. Mr. Roberts tr the suggestion for some time and found it to be an impro ment over the shorter case design, well worth the change. T new case would not chamber in the older chamber form, one is apt to encounter two custom-made chambers and c tridges which are different from the commercial .257 Robe on the market today.

Mr. Griffin was successful in interesting the Remingt Arms Company in the cartridge early in 1934. They chang the shoulder angle to 20 degrees and made several other mi dimensional changes to facilitate manufacture. All the chang were made with the approval of Mr. Roberts, and the co mercial .257 Roberts cartridge was introduced to the trade late 1934. The first commercial round was also called a Roberts but the name was soon changed to .257 Reming Roberts to avoid confusion with the previous custom-m Roberts cartridges. Winchester soon added the round to t line, calling it the .257 Winchester Roberts. The Reming Roberts and the Winchester Roberts are the same cartridge

Remington chambered their model 30 bolt-action rifle the round and Winchester had it available in their model bolt action. At present the .257 Roberts is available in Remington model 721A and the Winchester model 70, the t rifles that superseded the earlier models.

Since the .257 chambers were available only in bolt-act rifles, it was possible for the ammunition manufacturers load to comparatively high pressures. The nearest comp tive cartridge to the .257 is the .250-3000 Savage. The co parative ballistics of these two cartridges is enlightening:

Caliber	Bullet Weight	Velocity		Enegy		Midrange Trajecto		
		Muz.	100 yds.	Muz.	100 yds.	100 yds.	200 yds.	300
.257 Roberts	87	3220	2770	2005	1485	0.5	2.5	[illegible]
.250 Savage	87	3040	2600	1785	1305	0.6	2.5	[illegible]
.257 Roberts	100	2900	2530	1870	1420	0.6	2.5	[illegible]
.250 Savage	100	2810	2490	1755	1375	0.6	3.0	[illegible]
.257 Roberts	117	2630	2330	1800	1410	0.7	3.0	[illegible]

The capacity of the .257 is 3.57 cubic centimeters as c pared with 2.96 cubic centimeters for the .250 Savage. Col Whelen and others recommend both the .250 Savage and

7 Roberts as excellent deer and varmint rifle calibers but e preference to the latter because of its better shooting alities and superior accuracy at longer ranges. The efficiency the .257 Roberts cartridge reflects the long years of research d careful experimentation that went into its development.

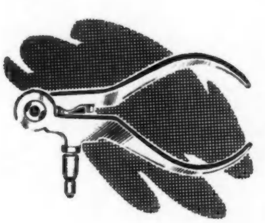
Perhaps no other .25-caliber cartridge has caused as much ntroversal discussion as has the .257 Roberts. On one side e those who contend that it is really not enough better than e .250 Savage to warrant its selection, while others claim enomenal performance, even with bullets as light as 60 grains weighing up to 125 grains. Chances are the reason for uch of the controversy is that .257 rifles are made commerlly with barrels having a rifling twist of one turn in ten ches to stabilize the 117-grain factory bullet. One thing is tain, however, and that is the .257 will handle the heavier llets and the .250 Savage is best with bullets weighing up to 0 grains. The slower rifling twist of one turn in twelve to urteen inches in .250 Savage rifles will not stabilize the ger and heavier bullets. We do know that the ten-inch ist used in the .257 will stabilize bullets as long as 1.2 inches d usually give good performance up to 500 yards.

In most cases when selecting loads for pressure and velocity ures we took arbitrarily the powder charges which had oven to be best with certain bullets. It is certain all loads ed (see Table 1) are within safe pressure limits in good es. Loads numbers one and nine did develop pressure a tle higher than the accepted standard for commercial loads. ad number three is an exact duplicate of load number two th the same components, the duplication occurring merely cause we wished to check on the very consistent performance the particular load which probably is one of the best for allound use in the .257. With any good 100-grain bullets, ds numbers two and three usually give good accuracy and essure is low enough so that seating depth can be increased ghtly for certain types of bullets and the load will still be a rfectly safe one.

For those who want to load with IMR 4895 powder, load mber four offers a very interesting comparison with load mber five. Keeping everything the same, except the lot of 95 used, we find the same amount of powder gives practically e same velocity, but there is a noticeable difference in the essure figures, which is a good example of the reason for owing the peculiar characteristics of each lot of powder.

Loads numbers six and seven are duplicates, except for varian in cases and primers. As a comparison, the test was concted to determine what little difference, if any, there would when using equivalent loads in the Remington cases which ually have a slightly greater powder capacity than those of inchester and Western make. The two loads have performed exceptionally well on big game, but the heavy 125-grain bullet is not accurate in all .257 Roberts rifles. The particular lot of 125-grain Barnes bullets which we were using were not accurate in either our .257 rifle (which is a standard model 70 Winchester) or in a .25 Magnum with a barrel having a ten-inch twist. In a .25-'06 Ackley with a barrel having a rifling twist of one turn in twelve inches, the 125-grain bullets were positively unstable even at 100 yards, keyholing quite frequently. After reforming the bullets in .25-caliber RCBS dies, there still were a few fliers but several loads in both the .257 Roberts and .25 Magnum gave exceptional accuracy.

Some .257 rifles will handle 87-grain bullets, but I have never had too good accuracy from any of the three Roberts rifles for which I have loaded them. One thing is certain though, and that is when using fairly heavy loads such as numbers eight and nine, very good velocity can be obtained with the 87-grain bullets in the .257 case. Loads eight and nine are both fairly heavy and it takes very good bullets to give accuracy at 3,300 foot-seconds velocity.



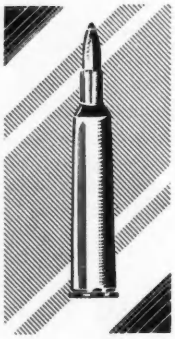
By every way of reasoning the light 60-grain bullets should not give accuracy in the ten-inch twist of the Roberts barrels. Many times they do work, however, sometimes performing even better than heavier bullets. One explainable reason might be that most commercial rifles made for the .257 cartridge have a short bullet seat, meaning that bullets must be seated deeply in the case neck. This is probably one of the reasons our standard M-70 rifle gave very decent accuracy when using 42 to 43 grains of No. 4064 powder with the 60-grain Speer bullet. The load was tried because one custom gunsmith found that five different rifles he turned out gave exceptionally fine accuracy with the same combination of powder charge and bullets but would not handle heavier bullets. Load number eleven was fired to determine how much velocity might be obtained at safe pressure levels with the light 60-grain bullet. We certainly reached the peak for the bullet, as in one test bullets went to pieces and we did not get a time register for velocity. The pressure gun barrel was rather warm, so after cooling the barrel a duplicate test gave the results listed for load number eleven.

In Table 2 listing drop figures considerable discrepancy appears but the figures are actual results, indicating the necessity for actually shooting a rifle at different ranges to determine how it will perform. One explainable reason for the considerable drop below aim at 400 and 500 yards for the first two loads listed is that the test was conducted with a noticeably

le 1: Velocity and Pressures for .257 Roberts Loads

oad	Bullet Weight (grains)	Bullet Type	Bullet diameter (inch)	Seating depth (inch)	Charge (grains)	Powder type	Lot number	Primer	Case make	Velocity at 20 feet (ft.-seconds)	Pressure (lb. sq. in.)	Remarks
1	117	Remington OP	.2565	.40	46.0	4350	10	RA 9½	Rem.	2,985	51,580	Near Maximum
2	100	Silvertip	.257	.40	46.0	4350	10	RA 9½	Rem.	3,034	43,560	Very accurate
3	100	Silvertip	.257	.40	46.0	4350	10	RA 9½	Rem.	3,007	43,400	Very accurate
4	100	Silvertip	.257	.40	39.0	4895	27277	RA 9½	Rem.	3,028	49,420	Good load
5	100	Silvertip	.257	.40	39.0	4895	2186	RA 9½	Rem.	2,974	43,880	Good load
6	125	Barnes	.256	.32	44.0	4350	10	RA 9½	Rem.	2,842	47,240	For heavy game
7	125	Barnes	.256	.32	44.0	4350	10	WRA 120	Sup.Sp.	2,873	48,940	For heavy game
8	87	Speer	.256	.12	48.0	4350	10	RA 8½	Rem.	3,367	49,520	Varmint load
9	87	Speer	.256	.12	43.0	4064	52	RA 9½	Rem.	3,398	50,300	Heavy load
0	60	Speer	.257	.13	41.0	3031	88	WRA 120	WRA	3,566	43,460	Good load
1	60	Speer	.257	.13	44.0	3031	88	WRA 120	WRA	3,790	48,900	Inaccurate
2	117	Soft Point	Commercial load							2,653	42,740	

worn Niedner barrel having a rifling twist of one turn in twelve inches. The particular load in that rifle was exceptionally accurate at 100 and 200 yards, but groups opened up noticeably at longer ranges, indicating that possibly for one reason or another the bullet was none too stable, thus resulting in a greater amount of drop. Another rather unusual comparison is results with 100-grain RCBS bullets in the .257 Roberts using 47 grains of No. 4350 and results with the same bullet in the .25-'06 Ackley using 56 grains of the same powder. They are so nearly alike that it indicates the large-capacity .25-'06 Ackley with the 100-grain bullet is inefficient. The Ackley Magnum rifle has a rifling twist of one turn in twelve inches and it will give equal results with other 100-grain bullets, indicating the test was no freak.



Another direct comparison is afforded with the drop figures for the same RCBS 100-grain bullet in the .25 Barr Magnum using 57 grains of No. 4350. The barrel was rather worn after 1500 rounds and the barrel has a rifling twist of one turn in twelve inches. Whether or not the fine performance of the .257 is due in part at least to the rifling twist of one turn in ten inches is still a question. The RCBS bullet is one of our own manufacture in Rock Chuck Bullet Swage dies which make a rather pointed 100-grain bullet that is .92-inch long. It does seem that the best performance in the Magnum cases was obtained, as far as flat shooting is concerned, by using the 125-grain bullet which we used in both the .257 Roberts and the .25 Magnum, the latter having a ten-inch twist barrel. These results indicate that the .257 Roberts when properly loaded with pointed bullets of about 100 grains weight is definitely not too far behind the .25 Magnums. The chronographed velocity of the 100-grain RCBS bullet in the .25-'06 Ackley was between 3300 and 3400 foot-seconds.

With the possible exception of the 100-grain Western and Winchester Silvertip bullets, our own standard model 70 Winchester in .257 Roberts caliber never did perform too well with any bullet-powder combination, even in handloads, until we lapped the bullet seat to give an overall cartridge length of three inches for the relatively long, pointed RCBS bullets. Then with 100-grain and also 125-grain Barnes bullets which were reformed in the same RCBS dies, we had very fine accuracy up to 500 yards. Barring a few fliers, the standard model 70 Winchester would group in less than 1-½ minutes of angle at all ranges. The reformed 125-grain Barnes bullet performed better than anything else in the rethroated .257 Roberts, which rifle, using a K6 Weaver scope in Stith Master Mounts, grouped in less than minute-of-angle for more than 85 percent of the shots at all ranges from 100 to 500 yards. The pay-off was four out of five shots in 1.33 inches at 300 yards and four out of five shots in 4.78 inches at 500 ya

For lead-alloy bullet loads in the .257 Roberts probably of the most outstanding is the Bond-Loverin 257730 weigh 89 grains and the Cramer No. 56 weighing 89 grains. An curate load for the Bond-Loverin bullet developed by Paul Mansfield, the custom-loader from New Boston, New Ha shire, is 3.0 grains of Pistol Powder No. 5 combined with grains of No. 4895 powder. Mansfield's load will freque group to near minute-of-angle at 100 yards. Another ha loader used the same bullet cast of pure linotype metal never got outstanding results until he tried 22 to 24 gra of IMR No. 4198 powder. Other loads tried with the sa bullet were 17 grains of No. 4227 or 15 grains of No. 24 For a very light load, usually ten to eleven grains of No. 47 works with the 89-grain bullet. One of H. Guy Loveri loads for this bullet was 27 grains of No. 3031.

Another very good bullet is the Bond-Loverin No. 257 weighing 74 grains. Loads with it recommended by Love are 25 grains of No. 3031 or 19 to 21 grains of No. 41 With the same bullet Mr. Mansfield has a very accurate l of 19 grains of No. 4198. The same charges can, of cou be used with the Cramer bullets or any other lead-alloy bul of equivalent weight.

For extremely high-velocity light-alloy cast-bullet loa Robert Hutton, 619 San Lorenzo Street, Santa Monica, C fornia, has developed some with his Kirksite bullets. Hut experimented with 40.5 to 44 grains of IMR No. 4320 pow and his best results seemed to be with 43 grains where velocity was estimated to be 3350 foot-seconds. The bullet the No. 55A Cramer, weighing 64 grains when cast in Ki site. Just recently Mr. Tom Nichols of Santa Rosa, N Mexico, obtained near minute-of-angle accuracy at 100 ya using Western 8½ primers, 45 grains of IMR No. 3 powder, .033-inch Ipco graphite wads and 65-grain Kirk bullets made by the Western Alloy Company. These bul with gas check were lubricated and sized to .2585-in

When trying to analyze all the favorable and unfavor reports on the .257 Roberts rifle in regards to point of curacy, about the only conclusion that can be reached is in some respects the cartridge is slightly erratic and that load will work exactly the same in two different rifles.

To meet the request for a good .25-caliber bullet, C. Moffat, P. O. Box 701, Susanville, California, the bul maker, has recently designed a two-diameter bullet weigh 100 grains. Having a pencil point nose section, the bulle approximately .96-inch long. The ¼-inch length gro diameter section measures .257 inch and the bore-riding sect measures .251-inch diameter. The smaller forward sect permits seating the bullet well out of the case, which ag may be one of the reasons for its good performance. Moff is a well-designed bullet.

One point which any reloader for the .257 Roberts cartri should not overlook is case length. *(Continued on page*

Table 2: Drop Figures for .25-Caliber Loads

Cartridge	Bullet: Weight	Type	Load	Above aim 100 yds.	200 yds.	Below aim 300 yds.	Below aim 400 yds.	Below aim 500 yds
.257 Roberts	100	WT&CW	46.0 grs. 4350	2.60 ins.	On aim		25.60 ins.	57.00 in
.257 Roberts	100	WT&CW	46.0 grs. 4350	2.50 ins.	On aim		25.10 ins.	56.90 in
.257 Roberts	100	RCBS	47.0 grs. 4350	2.35 ins.	On aim	4.90 ins.	15.15 ins.	35.25 in
.257 Roberts	125	Barnes	44.0 grs. 4350	1.40 ins.	On aim	5.50 ins.	23.50 ins.	45.50 in
.25-'06 Ackley	100	RCBS	56.0 grs. 4350	0.45 ins.	On aim	6.00 ins.	16.25 ins.	35.25 in
.25 Barr Magnum	100	RCBS	57.0 grs. 4350	0.10 ins.	On aim	6.00 ins.	18.00 ins.	35.90 in
.25 Barr Magnum	125	Barnes	52.5 grs. 4350	1.50 ins.	On aim	4.10 ins.	17.35 ins.	32.00 in

1949 VARMINT LAWS

The legislators tightened their grip on varmint shooting gain this year. Only ten states remain where the resident nd nonresident 'summer hunters' may make it hot for coyotes r crows without paying a license fee. Alabama, Florida, Maryland, Montana, Nebraska, North Dakota, South Dakota, Utah, Washington and Wyoming continue to give ll varmint shooters a free ride, while Arkansas, Kansas, Minnesota, Mississippi and New Mexico require only the onresident to buy a license for his off-season shooting.

Prices, by the way, have gone up in the hunting market. Eleven of the states requiring varminter licenses have raised he fee, some as much as $10.00. The nonresident who wants o shoot a crow in Oregon must now pay $35.00 for the rivilege. The jump from Oregon's $25.00 fee last year nd the likelihood of a $15.00 raise (from $10.00 to $25.00) n California must indicate a strong western crow lobby.

Varmint shooters who may resent the increased costs might e interested in the reasons for the expensive trend. Dyed-in-he-wool poachers and part-time violators operating under he guise of 'varminters' have always been a thorn in the ide of game management men. The fact that crow hunters ust now pay a stiff fee is not due so much to the game ommissioner's desire for additional revenue as it is a result f his wish to throw a blanket on the widespread carrying f firearms during the closed game season.

ALABAMA: To hunt woodchuck, crow, bobcat, cougar, Cooper's hawk, arp-shinned hawk, great horned owl, turkey vulture, black vulture, ither a resident nor nonresident license is required. It is necessary, wever, to have in possession a written permit when hunting upon e lands of another. There is no closed season or bounty paid on ese animals.

ARIZONA: To hunt crow, prairie dog, ground squirrel, Cooper's awk, goshawk, sharp-shinned hawk, great horned owl, a resident ense ($2.50) or a nonresident license ($10.00) is required. There o closed season or bounty for these animals. To hunt jack rab-it, coyote, bobcat, cougar, wolf, a resident license ($2.50) or a onresident license ($10.00) is required.

ARKANSAS: To hunt woodchuck, crow, jack rabbit, coyote, ground quirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-inned hawk, great horned owl, a resident license is not required. $25.00 nonresident license is required to hunt all game except fur-aring animals, or a $15.00 nonresident license is required to hunt l game except deer, turkey and fur-bearing animals. There is no osed season or bounty.

***CALIFORNIA:** To hunt crow, coyote, bobcat, cougar, marmot, oper's hawk, sharp-shinned hawk, great horned owl, no license required. License required for ground squirrels and jack rabbits. round squirrels have no closed season. Jack rabbits have no closed ason in Northern California. Resident license, $3.00; nonresident ense, $10.00. The cost of the nonresident hunting license may be creased to $25.00 if pending bill passes the legislature. A $60.00 unty is paid on female cougar, $50.00 on male cougar.

COLORADO: To hunt crow, prairie dog, jack rabbit, coyote, ground uirrel, bobcat, cougar, wolf, marmot, Cooper's hawk, goshawk, arp-shinned hawk, great horned owl, a resident ($3.00) or a non-sident ($10.00) license is required. There is no closed season on ese animals. A bounty of $50.00 is paid on cougar. Free permit hunt cougar in refuge areas obtainable from Game & Fish Dept. Denver.

CONNECTICUT: To hunt woodchuck, crow, bobcat, fox, snowy owl, oper's hawk, goshawk, sharp-shinned hawk, great horned owl, resident license (hunting $4.35 or combination $6.35) or a non-ident license (hunting $11.35 or combination $15.35) is required. six-day nonresident hunting license ($2.35) is available for fox.

***DELAWARE:** To hunt woodchuck, crow, bobcat, sharp-shinned wk, turkey vulture, black vulture, great horned owl, a resident ense ($1.25) or a nonresident license ($15.50) is required. There no closed season or bounty paid on these animals.

FLORIDA: To hunt crow, bobcat, cougar, Cooper's hawk, sharp-shinned hawk, great horned owl, no license is required. There is no bounty paid on these animals and no closed season.

GEORGIA: To hunt crow, woodchuck, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a state resident license ($5.25), a county resident license ($1.25), a state nonresident license $20.25), or a county nonresident license ($10.25) is required. There is no closed season or bounty paid on these animals. Shotguns are limited to three-round capacity.

IDAHO: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, hoary marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident hunting license ($2.00) or a nonresident gun license ($2.00) is required. There is no closed season. A $50 bounty is paid on cougar by the Game Dept.

*** ILLINOIS:** To hunt woodchuck, crow, bobcat, coyote, ground squirrel, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, black vulture, a resident license ($2.00) or a nonresident license ($15.00) is required. There is no closed season or bounty.

INDIANA: To hunt woodchuck, crow, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($1.50) or a nonresident license ($15.50) is required. There is no closed season or bounty paid on these animals.

IOWA: To hunt crow, Cooper's hawk, great horned owl, a resident license ($1.50) or a nonresident license (not less than $5.00 reciprocal with other states) is required except when hunter is on his own land and is a resident of the state. No closed season.

KANSAS: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license is not required. After July 1, the jack rabbit will become a game animal and require license. A nonresident license is and will be required (issued on reciprocal basis, minimum $5.00). There is no closed season on these animals. Bounty for coyote is $1.50.

KENTUCKY: To hunt woodchuck, crow, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident state ($3.00) resident county ($1.00) or nonresident ($15.50) license is required. There is no closed season or bounty paid on these animals. Shotguns are limited to three-round capacity.

LOUISIANA:

MAINE: To hunt woodchuck, crow, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.25) or a nonresident license ($10.25) is required. There is no closed season. A bounty of $15.00 is paid on bobcat. Automatic firearms are prohibited. Semiautomatic and repeating arms may be used provided the capacity of the magazine and chamber does not exceed six rounds.

MARYLAND: To hunt woodchuck, crow, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, neither resident nor nonresident licenses are required. No bounty or closed season except in Baltimore County where varmint hunting is illegal except during upland game and waterfowl season.

MASSACHUSETTS: To hunt woodchuck, ground squirrel, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.00) or a nonresident license ($10.25) is required. There is no closed season except that Sunday hunting is prohibited, and the possession of firearms where birds or mammals might be found on that day is illegal. No hunting is allowed from Sept. 20 to Oct. 19 inclusive. Bobcat bounty of $10.00 to be paid by city or town where killed.

*** MICHIGAN:** To hunt crow, coyote, bobcat, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($2.00) or a nonresident license ($15.00) is required. There is no closed season on these animals. However, firearms may not be carried between sunset and sunrise in game areas during closed season on game.

To hunt woodchuck, a license is required as above. The closed season on woodchucks is Oct. 15 to Jan. 31 in Lower Peninsula north of north line of Town 16N, Oct. 15 to Dec. 31 south of north line of Town 16N. No closed season on woodchucks in Upper Peninsula.

Bounties are paid to Michigan residents only. They are: male coyote, $15.00; female coyote, $20.00; red fox, $5.00; male wolf,

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* State legislature is still in session at time of publication.

$15.00; female wolf, $20.00; and the $5.00 bounty for bobcat in the Upper Peninsula will expire after June 30, 1949.

It is unlawful to possess firearms in game areas without a license. During the deer season, it is unlawful to possess a rifle larger than .22 caliber or a shotgun with buckshot, ball, slug load, or cut shell unless in possession of a deer license.

During open season on small game, but during closed season for taking deer with firearms, it is unlawful to possess, between sunset and sunrise, a rifle larger than .22 or a shotgun with buckshot, ball, slug load or cut shell.

It is unlawful to use an automatic, semiautomatic, or an autoloading rifle or shotgun larger than .22 caliber that is capable of holding more than six shells or cartridges in the barrel and magazine. During the five days immediately preceding firearm deer season, it is unlawful to carry or transport in deer area a rifle larger than .22 caliber or shotgun with buckshot, ball, slug load or cut shell except for transporting hunting arms to hunting camp.

*** MINNESOTA:** To hunt woodchuck, coyote, wolf, fox, bobcat, lynx, ground squirrel, residents are not required to have licenses. A $25.00 nonresident license is required. To hunt crow, Cooper's hawk, sharp-shinned hawk, great horned owl, no license is required by either resident or nonresident. To hunt jack rabbit, a $2.00 resident license and a $25.00 nonresident license is required. A closed jack rabbit season is to be set by the Game Commissioner's order about Sept. 1. Bounty on wolf is $6.00 for cubs, $15.00 for adults.

MISSISSIPPI: To hunt crow, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license is not required but a nonresident license ($25.25) is required. There is no closed season or bounty. Shotguns are limited to three-round capacity.

MISSOURI: To hunt crow, great horned owl, sharp-shinned hawk, Cooper's hawk, goshawk, wolf, coyote, bobcat, a state resident ($2.50), a county resident ($2.00), a resident state hunting, trapping and fishing ($4.00) or a state nonresident ($15.00) hunting license is required. There is no closed season. Local county bounties are paid on coyote, bobcat and wolf. Woodchucks may be hunted from Jan. 1 to Oct. 31, and from Nov. 10 to Dec. 31 with license requirements as above.

MONTANA: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, hoary marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, neither a resident nor nonresident license is required. There is no closed season. There is a bounty on coyote (individual stockmen's associations and counties); bobcat, $2.00; cougar, $25.00; and a cooperative bounty of $.10 on crows and magpies with sportsmen's clubs.

NEBRASKA: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, red fox, grey fox, bobcat, cougar, wolf, badger, marmot, Cooper's hawk, goshawk, sharp-shinned hawk, neither a resident nor a nonresident license is required. There is no closed season. A $2.50 bounty is paid for coyotes and red fox by the counties where taken.

NEVADA: To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, Cooper's hawk, goshawk, wolf, hoary marmot, sharp-shinned hawk, great horned owl, cougar, a resident license ($3.50) or a nonresident ($10.00) license is required for hunters not under 16 years of age. There is no closed season.

*** NEW HAMPSHIRE:** To hunt woodchuck, crow, red fox, grey fox, black bear, bobcat, a resident license ($3.60) or a nonresident license ($15.25) is required. There is no closed season. A bounty of $20.00 is paid on bobcat, of $5.00 for black bear.

NEW JERSEY: To hunt crow, a resident license ($3.15) or a nonresident license ($15.50) is required. Crows may be killed at any time there is an open hunting season on any game bird or game animal, providing the killing of the varmint is done in a locality where game birds and animals on which there is an open season are to be found. In other words, a person could not go into the woods and fields hunting crows during the waterfowl season, but must restrict his hunting to waterfowl areas. There is no hunting on Sunday. A bounty of $.50 may be paid for woodchucks by Board of Freeholders. All hunting is limited to shotguns except if a special permit is issued whereby persons may use a rifle for the killing of woodchucks during the open season. Woodchuck season is closed except for approximately three months in late summer.

NEW MEXICO: To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a nonresident license ($10.00) is required, but residents are not required to have a license. There is no closed season (except on dus or whistling marmot which is closed all year) and no bounty. Sh guns are limited to three rounds.

NEW YORK: To hunt fox, bobcat, wolf, wild dog, cougar, jack ra bit, porcupine, kingfisher, crow, cormorant, great horned owl, gr grey owl, snowy owl, goshawk, Cooper's hawk, marsh hawk, sha shinned hawk, pigeon hawk, a resident license ($2.25) or a nonre dent license ($10.75) is required. There is no closed season. So counties pay bounties on bobcat, wolf, wild dog, and fox.

Silencers, full automatic and semiautomatic firearms capable being loaded with more than six rounds and having a caliber great than .22 rimfire may not be used.

NORTH CAROLINA: To hunt crow, Cooper's hawk, sharp-shinn hawk, great horned owl, bobcat, weasel, skunk, a resident ($3.1 or nonresident ($15.75) hunting license is required. There is closed season or bounty on these animals except that Sunday hunti is prohibited.

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OHIO: To hunt crow, Cooper's hawk, goshawk, sharp-shinned hav great horned owl, a resident license ($1.25) or a nonresident lice ($15.25) is required. There is no closed season. Woodchuck m be hunted as above, except if there is a closed season from March to June 15 inclusive. A bounty is paid on crow at option of Boa of County Commissioners.

OKLAHOMA: To hunt crow, prairie dog, jack rabbit, coyote, bobc wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, a re dent license ($1.25) or a nonresident license ($15.00) is required. bounty of $2.50 is paid on coyote, bobcat and wolf.

OREGON: To hunt crow, jack rabbit, coyote, ground squirrel, bobc cougar, bear, wolf, Cooper's hawk, sharp-shinned hawk, great horn owl, a resident license ($3.00) or a nonresident license ($25.00) required. There is no closed season. A bounty is paid on bobc $2.50 (when matched by county); cougar, $50.00; and wolf, $30. After Jan. 1, 1950 the cost of the resident hunting license will increased to $4.00 and the nonresident hunting license to $35.00.

PENNSYLVANIA: To hunt crow, bobcat, Cooper's hawk, goshav sharp-shinned hawk, and great horned owl, a resident license ($2. or a nonresident license ($15.00) is required until after Sept. 1, 1 when a resident license will cost $3.15 and a nonresident license There is no closed season. Woodchucks have license requireme as above, and may be hunted only from July 1 to Sept. 30, 1949.

Until August 1, 1949, a $2.00 bounty is paid on goshawk and gr horned owl; fledglings, $1.00; red and grey fox, $4.00 each; wea $1.00. An August 1, 1949, the bounty on goshawk and great hor owl will be $5.00; fledglings, $2.50; red fox, no bounty; grey f $4.00; weasel, $1.00.

No bounties are paid on fox killed in Chester and Delaw Counties due to special law.

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SOUTH DAKOTA: To hunt crow, woodchuck, prairie dog, gro squirrel, wolf, Cooper's hawk, sharp-shinned hawk, great hor owl, neither a resident nor a nonresident license is required. J rabbit, coyote, bobcat, may be killed without license by residents may not be hunted or killed by nonresidents. There is no cl season. A bounty on crows of $.15 is paid to residents only du the months of April, May and June.

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TEXAS: To hunt woodchuck, crow, prairie dog, jack rabbit, coy ground squirrel, bobcat, cougar, wolf, Cooper's hawk, gosh sharp-shinned hawk, great horned owl, *(Continued on page*

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* State legislature is still in session at time of publication.

International and National Matches

ARRANGEMENTS are now complete for holding the National Small-Bore Rifle Matches at Camp Dodge, Iowa, and Na-ional Pistol Matches at Fort Sheridan, Illinois. Tryouts or International Small-Bore and Pistol Teams are also cheduled at Camp Dodge and Fort Sheridan. The NRA is ill attempting to have the Senate include funds in the National Board for the Promotion of Rifle Practice budget for egional and national service rifle matches. However, should he attempt be unsuccessful, the NRA is planning to organize mited .30-caliber competition which will include final tryouts or the International free-rifle team.

NATIONAL MATCH ENTRIES

Because only 250 shooters can be handled comfortably on e small-bore range at Camp Dodge, Iowa, and only 400 istol shooters at Fort Sheridan, Illinois, entries in National Championship events must be limited. Therefore, in accept-g entries for the National Small-Bore and National Pistol Matches, priority will be given:

a) To the highest 20 percent (or capacity of the range) of e individual competitors in each of the eleven Regional Grand Aggregates;

b) In the pistol matches to the high ranking team in the Master and Expert class in the .22-caliber, center-fire and 45-caliber National Match team events at the eleven Regional ournaments (the same team members must fire on each team n the National Championship as fired on the team in the Regional team match);

c) To the next lower individual competitors from each Regional in order of rank in their Regional Aggregate p to a number from each regional equal to 20 percent (or apacity of the range) of the number of entries in the Regional Grand Aggregate;

d) If any region does not utilize its full quota of indi-idual entries under (a) and (c), entries will be accepted om additional competitors from other regions until the apacity of the range is reached (about 250 at National Small-ore, 400 at National Pistol). In this case entries will be orated on the basis of the comparative number of entries in e several Regionals and entries will be accepted in the order f the competitors' ranking in their Regional Grand Aggregate.

Each competitor at a Regional tournament will be required o fill out a card stating whether or not, he or she, can attend e Nationals if selected. It will be each competitor's respon-bility to complete these cards and turn them in to the referee his Regional. Lack of a card will be taken to indicate that e person concerned cannot attend the Nationals.

By August 1 formal entry will be required from all shooters ho are to compete in the Nationals as indicated by ranking in e Regionals fired to that date. Competitors firing in Re-onals held after August 1 will make National Championship try with the referee at the Regional they attend.

NATIONAL PISTOL CHAMPIONSHIP

Though last month's RIFLEMAN announced the National Pistol Championship would be held at Camp Dodge, Des Moines, Iowa over Labor Day weekend, plans have been changed to provide for a larger range which will accommodate more shooters. Through the cooperation of Fort Sheridan, Ill., and the Fifth Army, the Fort Sheridan range 30 miles north of Chicago has been made available for the 1949 Nationals from September 1 to 5. Located on two main highways north of Chicago, Fort Sheridan can be easily reached by train and interurban lines also.

Approximately 100 pistol targets can be installed on the Fort Sheridan site, allowing, on the basis of four relays per match, 400 competitors to compete.

Competitors' quarters for both men and women (no families can be quartered together) will be in regular Army-type barracks, not in tents. Cots, blankets, sheets, pillows and pillow cases will be furnished at a small cost (probably about $2.50 for the entire period) to cover laundry and attendant services. The average charge for the meals which will be served in an Army mess will be about $2.50 per day. The entire registration and individual match entry fee (including practice on Thursday) will be $20.00 for each competitor. Team entries will be $4.00 per team.

Colonel Francis W. Parker, past NRA president, many times Camp Perry range officer and previous National Match executive officer, has been appointed executive officer of the National Pistol Championship Matches.

NATIONAL SMALL-BORE CHAMPIONSHIP

The National Small-Bore Championships will be fired on the splendid 125-point Camp Dodge Range at Des Moines, Iowa, over Labor Day weekend, September 2 to 4, with the Des Moines Rifle and Revolver Club supplying trained personnel to operate the matches.

For holding National Small-Bore Matches, Camp Dodge facilities are outstanding. Available are one hundred and twenty-five sodded firing points, brick quarters at camp for all who come (families can be quartered together), meals that previous Regional competitors say are delicious. A charge of about $3.00 will be made for the quarters. Meals will be about $2.00 a day. For competitors who wish hotel accommodations or tourist rooms, Des Moines is only 14 miles away.

General Grahl, Iowa State Adjutant General, who has filled the same office at two Regional tournaments, has been named Executive Officer of the 1949 Nationals.

Two hundred and fifty competitors can be accommodated on the Camp Dodge range. Entries for the *full program* (not including the International Small-Bore Team tryouts) can be accepted from 250 shooters who have competed in the 1949 Small-Bore Regional Championship matches. The entire registration and enry fee for all individual matches and practice on Friday will be $15.00 for each competitor, not including the fee for quarters or meals at Camp Dodge.

$15.00; female wolf, $20.00; and the $5.00 bounty for bobcat in the Upper Peninsula will expire after June 30, 1949.

It is unlawful to possess firearms in game areas without a license. During the deer season, it is unlawful to possess a rifle larger than .22 caliber or a shotgun with buckshot, ball, slug load, or cut shell unless in possession of a deer license.

During open season on small game, but during closed season for taking deer with firearms, it is unlawful to possess, between sunset and sunrise, a rifle larger than .22 or a shotgun with buckshot, ball, slug load or cut shell.

It is unlawful to use an automatic, semiautomatic, or an autoloading rifle or shotgun larger than .22 caliber that is capable of holding more than six shells or cartridges in the barrel and magazine. During the five days immediately preceding firearm deer season, it is unlawful to carry or transport in deer area a rifle larger than .22 caliber or shotgun with buckshot, ball, slug load or cut shell except for transporting hunting arms to hunting camp.

*** MINNESOTA**: To hunt woodchuck, coyote, wolf, fox, bobcat, lynx, ground squirrel, residents are not required to have licenses. A $25.00 nonresident license is required. To hunt crow, Cooper's hawk, sharp-shinned hawk, great horned owl, no license is required by either resident or nonresident. To hunt jack rabbit, a $2.00 resident license and a $25.00 nonresident license is required. A closed jack rabbit season is to be set by the Game Commissioner's order about Sept. 1. Bounty on wolf is $6.00 for cubs, $15.00 for adults.

MISSISSIPPI: To hunt crow, bobcat, Cooper's hawk, sharp-shinned hawk, great horned owl, a resident license is not required but a nonresident license ($25.25) is required. There is no closed season or bounty. Shotguns are limited to three-round capacity.

MISSOURI: To hunt crow, great horned owl, sharp-shinned hawk, Cooper's hawk, goshawk, wolf, coyote, bobcat, a state resident ($2.50), a county resident ($2.00), a resident state hunting, trapping and fishing ($4.00) or a state nonresident ($15.00) hunting license is required. There is no closed season. Local county bounties are paid on coyote, bobcat and wolf. Woodchucks may be hunted from Jan. 1 to Oct. 31, and from Nov. 10 to Dec. 31 with license requirements as above.

MONTANA: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, hoary marmot, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, neither a resident nor nonresident license is required. There is no closed season. There is a bounty on coyote (individual stockmen's associations and counties); bobcat, $2.00; cougar, $25.00; and a cooperative bounty of $.10 on crows and magpies with sportsmen's clubs.

NEBRASKA: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, red fox, grey fox, bobcat, cougar, wolf, badger, marmot, Cooper's hawk, goshawk, sharp-shinned hawk, neither a resident nor a nonresident license is required. There is no closed season. A $2.50 bounty is paid for coyotes and red fox by the counties where taken.

NEVADA: To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, Cooper's hawk, goshawk, wolf, hoary marmot, sharp-shinned hawk, great horned owl, cougar, a resident license ($3.50) or a nonresident ($10.00) license is required for hunters not under 16 years of age. There is no closed season.

*** NEW HAMPSHIRE**: To hunt woodchuck, crow, red fox, grey fox, black bear, bobcat, a resident license ($3.60) or a nonresident license ($15.25) is required. There is no closed season. A bounty of $20.00 is paid on bobcat, of $5.00 for black bear.

NEW JERSEY: To hunt crow, a resident license ($3.15) or a nonresident license ($15.50) is required. Crows may be killed at any time there is an open hunting season on any game bird or game animal, providing the killing of the varmint is done in a locality where game birds and animals on which there is an open season are to be found. In other words, a person could not go into the woods and fields hunting crows during the waterfowl season, but must restrict his hunting to waterfowl areas. There is no hunting on Sunday. A bounty of $.50 may be paid for woodchucks by Board of Freeholders. All hunting is limited to shotguns except if a special permit is issued whereby persons may use a rifle for the killing of woodchucks during the open season. Woodchuck season is closed except for approximately three months in late summer.

NEW MEXICO: To hunt crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a nonresident license ($10.00) is required, but residents are not required to have a license. There is no closed season (except on du or whistling marmot which is closed all year) and no bounty. Sh guns are limited to three rounds.

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Silencers, full automatic and semiautomatic firearms capable being loaded with more than six rounds and having a caliber grea than .22 rimfire may not be used.

NORTH CAROLINA: To hunt crow, Cooper's hawk, sharp-shinn hawk, great horned owl, bobcat, weasel, skunk, a resident ($3.1 or nonresident ($15.75) hunting license is required. There is closed season or bounty on these animals except that Sunday hunti is prohibited.

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OHIO: To hunt crow, Cooper's hawk, goshawk, sharp-shinned ha great horned owl, a resident license ($1.25) or a nonresident lice ($15.25) is required. There is no closed season. Woodchuck m be hunted as above, except if there is a closed season from Marc to June 15 inclusive. A bounty is paid on crow at option of Bo of County Commissioners.

OKLAHOMA: To hunt crow, prairie dog, jack rabbit, coyote, bob wolf, Cooper's hawk, sharp-shinned hawk, great horned owl, a r dent license ($1.25) or a nonresident license ($15.00) is required. bounty of $2.50 is paid on coyote, bobcat and wolf.

OREGON: To hunt crow, jack rabbit, coyote, ground squirrel, bob cougar, bear, wolf, Cooper's hawk, sharp-shinned hawk, great hor owl, a resident license ($3.00) or a nonresident license ($25.00) required. There is no closed season. A bounty is paid on bob $2.50 (when matched by county); cougar, $50.00; and wolf, $30. After Jan. 1, 1950 the cost of the resident hunting license will increased to $4.00 and the nonresident hunting license to $35.00.

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INTERNATIONAL TEAM TRYOUTS

The exact size of the team which will represent the United States at the 1949 International Shooting Union World Championship Matches in Buenos Aires, Argentina, November 4 to 13, will depend upon the outcome of negotiations now going on between the NRA and the Air Force. If possible to have the squad flown to Buenos Aires in an Air Force plane, the squad will include five big-bore free-rifle shooters, five small-bore riflemen, five slow-fire pistolmen and five rapid-fire pistolmen. Should the attempt fail and it is necessary to arrange commercial air transportation, since time to make the boat trip would be too great for most team members, the squad must of course be reduced. In that case, the squad will be consolidated taking 6 riflemen to shoot the free-rifle and small-bore events and six pistolmen to fire both the slow and rapid fire matches. Definite information about the size of the squad to be taken to the International Matches will be given in next month's RIFLEMAN.

Arrangements for tryouts, final selection, and procuring special equipment and ammunition for the International team is in the hands of an NRA committee consisting of General Julian S. Hatcher, General Sidney A. Hinds and Mr. Frank Parsons, three experienced International Match shooters. General Hinds, well-known as both a rifle and pistol shooter, has been named captain of the squad to replace General Merrit E. Edson, who cannot travel with the team. Team coach and adjutant have not been named.

With the shooters' schedule so crowded this summer with club, state, regional and finally the National Small-Bore Rifle and Pistol Championships, the committee has found it undesirable to hold preliminary International Team tryouts at all regionals as first planned. Anyone not desiring to fire in National Championships who wishes to try out for the International Team may make application by letter to the committee to do so.

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.257 ROBERTS LOADS

(Continued from page 34)

Frequently we have learned of shooters having case sticking difficulties, even with what should be moderate loads. Several times recently we have traced the cause to cases too long for the chamber. The maximum length for the .257 Roberts case is 2.233 inches. The .257 case after a few firings in most rifles stretches, being more definitely critical than the .250 Savage in this respect. The real difficulty with cases too long for the chamber is not only unduly high pressure, but accuracy suffers accordingly. This could conceivably be one of the causes for unfavorable reports on this caliber.

When it comes to recommending a general load for the .257 Roberts, we can only say that best luck has been obtained by suggesting 39 grains of DuPont Nos. 4320 or 4064 with any 87- or 100-grain bullets as a starting combination, which is seemingly about as good as we can get.

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1949 VARMINT LAWS

(Continued from page 36)

turkey vulture, black vulture, a resident ($2.00) or nonresident ($25.00) hunting license is required. There is no closed season. A bounty of not more than $5.00 is paid on bobcat, cougar and wolf.

UTAH: To hunt woodchuck, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, sharp-shinned hawk, neither a resident nor a nonresident license is required. There is no closed season. A bounty is paid on coyote and bobcat, $6.00; cougar, $25.00; and wolf, $15.00.

* **VERMONT:** To hunt woodchuck, crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.25 unless actually domiciled on land hunted) or a nonresident license ($15.00) is required. There is no closed season. A bounty of $10.00 is paid on bobcat.

VIRGINIA: To hunt woodchuck, crow, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, turkey vulture, black vulture, a resident license ($3.50) or a nonresident license ($15.75) is required. There is no closed season except that Sunday hunting is prohibited, and no bounty. Shotguns are limited to three rounds, and may not be larger than 10 gauge. Written permission from landowner or his agent is required to hunt on posted land.

WASHINGTON: To hunt woodchuck, crow, prairie dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, neither resident nor nonresident license is required. There is no closed season. A bounty is paid on crow ($.10), coyote and bobcat ($5.00), cougar ($50.00). Bounty may be collected only by a licensed resident ($5.00).

WEST VIRGINIA: To hunt crow, bobcat, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, a resident license ($2.00) or a nonresident license ($15.00) is required. The woodchuck is a game animal, the open season for which will not be established until the first Monday in July, 1949, in the following counties: Barbour, Braxton, Brooke, Cabell, Clay, Doddridge, Fayette, Grant, Hancock, Hardy, Harrison, Kanawha, Lewis, Lincoln, Logan, Marion, Marshall, Mason, Mercer, Mingo, Monongalia, McDowell, Nicholas, Pendleton, Pleasants, Raleigh, Randolph, Taylor, Tyler, Upshur, Wayne, Wetzel, Wood and Wyoming. Woodchuck may be hunted through the entire year in all other counties. There is no bounty on the animals listed above.

WISCONSIN: To hunt crow, great horned owl, wolf, coyote, bobcat, lynx, fox, weasel, a resident ($1.50) or nonresident ($25.00) hunting license is required. There is no closed season. Bounty on adult coyote and timber wolf, $20.00, pups, $10.00; $2.50 on adult fox, $1.00, kits; $5.00 on bobcat. Woodchuck license requirements as above. Closed season all year except in the following counties where they may be taken all year: Ashland, Barron, Bayfield, Burnett, Douglas, Florence, Forest, Iron, Langlade, Lincoln, Marinette, Oconto, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas and Washburn.

WYOMING: To hunt woodchuck, crow, paririe dog, jack rabbit, coyote, ground squirrel, bobcat, cougar, wolf, Cooper's hawk, goshawk, sharp-shinned hawk, great horned owl, neither resident nor nonresident licenses are required. There is no closed season. Local bounties are occasionally paid on crow, magpie, coyote and bobcat.

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LEGISLATIVE BULLETIN

(Continued from page 31)

have helped us because of a sincere appreciation of the sportsman's viewpoint. It is hoped that many more can be included in another listing in a future issue.

U.S. Senator Styles Bridges, New Hampshire
U.S. Senator Charles W. Tobey, New Hampshire
U.S. Representative Harold C. Hagen, Minnesota
U.S. Representative Chester E. Merrow, New Hampshire
State Senator John H. Hughes, New York
State Senator Thomas F. Keating, California
State Senator Fred H. Kraft, San Diego, California
State Senator Guy A. Leader, York, Pennsylvania
State Senator Walter J. Mahoney, New York
State Senator Gerald J. O'Gara, San Francisco, California
State Senator Christopher H. Phillips, Massachusetts
State Senator Clarence C. Ward, Santa Barbara, California
State Representative Lonnie W. Brown, McAlester, Oklahoma
State Assemblyman Charles J. Conrad, Hollywood, California
State Assemblyman Henry D. Coville, Central Square, New York
State Representative John J. Farley, Cincinnati, Ohio
State Representative Peter B. Gay, Taunton, Massachusetts
State Representative Robert C. Gile, Roseburg, Oregon
State Assemblyman D. Cady Herrick II, Slingerland, New York
State Assemblyman Robert I. McCarthy, San Francisco, California
State Assemblyman Richard H. McCollister, Mill Valley, California
State Representative Richard A. Ruether, Massachusetts
State Representative Robert H. Sherman, Oklahoma City, Oklahom
State Assemblyman Stanley T. Tomlinson, Santa Barbara, Califor
State Assemblyman Malcolm Wilson, Yonkers, New York
State Assemblyman Francis Worley, York Springs, Pennsylvania

ARISAKA SPORTERS

What about the Jap rifle? Are all of them bad? Which Jap rifles can be converted into sporters?

By JULIAN V. GIBSON and BOB PEEL

SINCE WORLD WAR II there has been considerable discussion of the merits of the 6.5-mm. and 7.7-mm. Arisaka rifles manufactured in Japan. Like our Springfield and Enfield, the Arisaka belongs to the justly famous Mauser turn-bolt action family, although public opinion has more or less classed all Japanese-made rifles as doubtful for general use. It is true that some Jap rifles are war relics, unsatisfactory and unsafe according to accepted standards, but it would be unjust to lump all Jap rifles in the same category. To clarify the problem, let us segregate Jap rifles into three basic groups.

The first class of Jap rifles is the cast receiver type, roughly shaped and crudely finished. Produced during the last few months of the war, most of the Jap cast receiver rifles and carbines can be identified either by the absence of tang straps or by tangs cast integral with the receiver. No doubt some of these may be fired without fatal results, but it is recommended that they be used for no other purpose than decorating the sportsman's den.

In the second group of Jap rifles we find the ordinary Arisaka service rifle or carbine, chambered for the 7.7-mm. cartridge. These are usually rough-looking specimens revealing the haste with which they were manufactured. If in good condition, they are generally safe to fire although the rough exterior finish more or less prohibits conversion into a *handsome* sporter. The Jap service arm, then, is the choice for the fellow who doesn't require elaborate scroll engraving or a fancy cheekpiece on his woods' rifle.

In the last group of Jap rifles we find first class Arisakas in 6.5-mm. and 7.7-mm. calibers, having fine workmanship and excellent materials that can be readily noted. The action and barrel assemblies are accurately machined, blued and polished. The bolt knob is generally checkered. The rifles within this group are suitable for conversion into excellent sporters. After conversion, they will fall within the 6¾- to ¼-pound class, lighter than most military alterations.

The 7.7-mm. Arisaka—The first question which the owner of a Jap rifle asks is, "What do I do about ammunition?" There is a choice of three procedures. First, the rifle can be rebarreled to the caliber of your choice. Though it is entirely satisfactory to fit new barrels in such calibers as .300 Savage, .257 Roberts or .30-'06 to Jap receivers, it may call for more money than you wish to spend on a conversion job. One leading barrelmaker charges $10.00 over the regular price for fitting barrels to Jap actions.

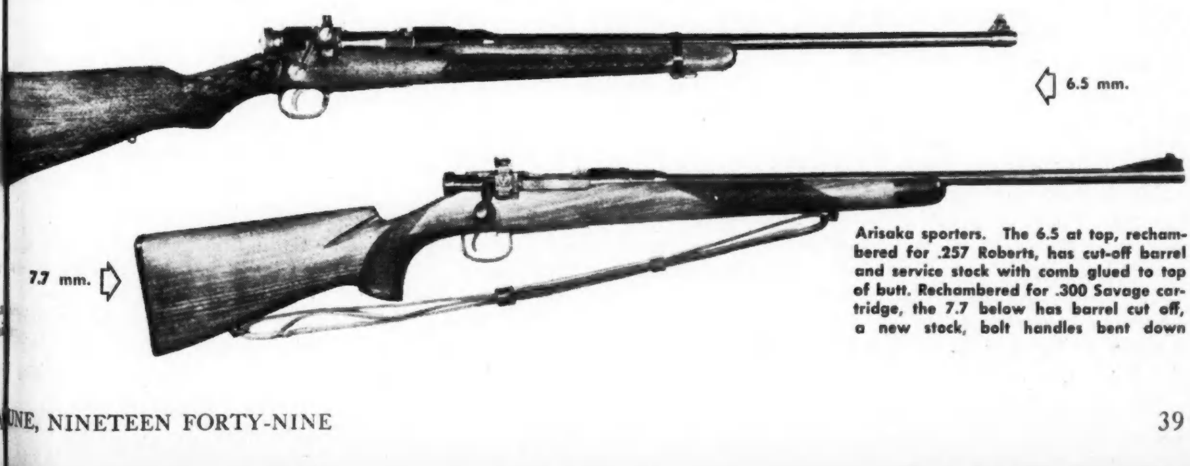
If a new barrel is out of the question, it is possible to obtain custom-loaded 7.7-mm. cartridges adapted from .30-'06 cases, or the original barrel can be set back into the receiver and rechambered for the popular .300 Savage cartridge.

The first step in building a Jap sporter is to strip off the old stock and bands so it is possible to give the barrel and action a thorough inspection. All parts should be removed and cleaned. Next the barrel should be cut to the desired length, since 7.7-mm. barrels come in lengths running from 26½ to 29 inches, which are too long for looks and comfort. Having cut and crowned the barrel, we can select the sights we wish to put on. If iron sights are desired, there is a wide choice of commercial ramps with or without barrel band. A ramp sight with integral barrel band is the most desirable, but the plain sweat-on type is satisfactory. Before ordering a banded ramp sight it is wise to mike the muzzle diameter of the barrel as barrels vary a few thousandths of an inch in size. If the barrel band is too small, it can be expanded a trifle by peening its surface, the band being held over a steel mandrel.

If an open-type rear sight is preferred, it is necessary to fit a base or barrel band in place of the service rear sight base, slotting the new band or base for a ⅜-inch standard dovetail. The rear sight base can be either sweated on or held in place by a small set screw inserted from the bottom.

If an aperture-type rear sight is desired, one can select either the Lyman 48 or Redfield 70. Manufacturers do not list a special sight for the Jap rifles, but those designed to fit the Enfield or .30 Remington receivers will work nicely.

The bolt assembly can be taken apart by pressing forward on the bolt cap and rotating it to the right, revealing the simple but strong firing mechanism. The firing pin is of tubular construction and contains the firing pin spring. The -



Arisaka sporters. The 6.5 at top, rechambered for .257 Roberts, has cut-off barrel and service stock with comb glued to top of butt. Rechambered for .300 Savage cartridge, the 7.7 below has barrel cut off, a new stock, bolt handles bent down

design of the striker mechanism is good since it permits a very close fit within the bolt, insuring diversion of stray gases through a port in the bottom side of the bolt. Any gas which does stray to the rear around the striker assembly is blocked by a large cap at the rear of the bolt. It can be seen that the shooter is well protected from blowbacks caused by case ruptures or punctured primers.

If the mounting of a scope is desired, it is necessary to alter the bolt handle to permit clearance. The bolt handle is sawed almost completely through at a point 7/16 inch from the bolt at the slight angle shown in the diagram. After packing the bolt body with wet asbestos or rags, it is possible to heat the handle to a dull red without seriously affecting the temper of the bolt itself. After heating, the handle is bent approximately 90 degrees and the notch is welded up, after which the bolt knob can be bent outward and to the rear to give the appearance desired. The bolt is ready for filing and polishing.

The plum-shaped bolt knob on a Jap rifle is not a thing of beauty, but it can be altered to a neat pear shape by means of a simple lathe-turning operation prior to the bending of the bolt handle. The small center hole in the end of the knob necessary for the lathe turning will not hurt the appearance of the bolt. Shaping of the bolt knob can be done carefully with power-driven grinding equipment by those not having the use of a lathe. After rough grinding to shape, the bolt knob can be cleaned up by a file and polished.

Like the Enfield, the Arisaka cocks on the closing stroke of the bolt. If it is desired to change the firing mechanism to cock on opening the bolt, an alteration of the sear is necessary. First add metal to the rear of the original sear by welding, shaping the deposit to the approximate size of the original sear. To obtain the new engaging surface, metal is carefully filed from the old engaging surface of the sear notch until it makes contact with the locking lugs on the bolt when the lugs engage the lug recesses in the receiver ring.

Since the firing pin travel has been shortened considerably, it is necessary to fit a stronger spring or to make up a ⅜-inch piece of rod for inserting ahead of the original spring. If the job is done correctly, a very fast lock will result and the bolt will operate so smoothly that it can be flipped open or shut with one finger.

The appearance of the trigger guard can be improved materially by modification of the guard loop. Saw through the back of the loop about ⅜ inch from the base. The cut end is then forced down inside the stub where it is welded into place with a heavy bead. The base of the loop is then altered to finished shape using a half-round file. After the loop has been thinned down and narrowed, it will have the appearance of a milled trigger guard.

To eliminate the military two-stage pull of the trigger, it is necessary to grind off the forward cam after which the sear and notch can be dressed and polished with a fine cutting stone to give a smooth, crisp let-off.

To dress up the trigger itself, the finger loop can be heated and flattened out, after which it is ground and polished to a slender taper. The face side is then checkered with a checkering file, then the loop is reheated and bent to a graceful curve.

The upper receiver tang should be shortened and curved to make the fitting of a full pistol grip stock possible. The lower tang is also cut off, to a length of 2½ inches measured from the rear screw hole. Round the corners of the tang and taper it to about 7/16 inch at the end, then drill end of the tang and countersink it to accept a flathead wood screw.

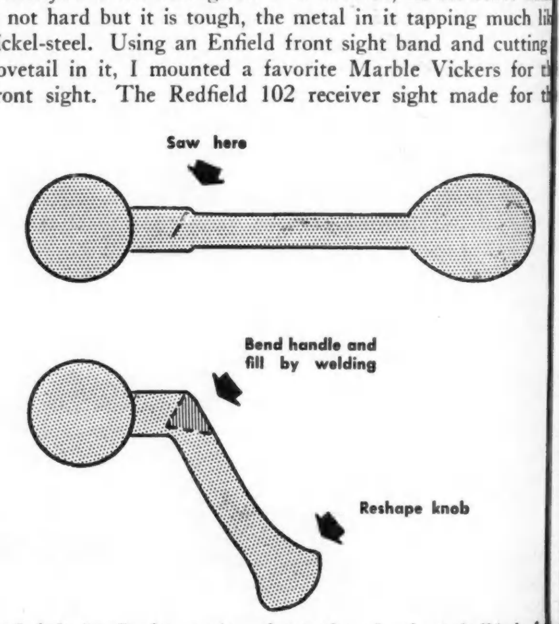
With all metal work completed, it is necessary to polish and blue all parts, taking particular care around the bolt handle, trigger guard and floor plate. The issue floor plat release may require a bit of tightening, but in design it i superior to the one found on the Springfield or Enfield.

I will not go into the subject of stocking except to say tha the Arisaka stock, as well as any other, should be fitted tightly around the action and barrel if an accurate rifle is to result. After the rifle is stocked however, if you have done your wor well, you will have a rifle that handles, looks and shoot like a good sporter should.

The 6.5-mm. Arisaka—One day my shooting partner, wh knows well my weakness for guns, dropped into the offic "Interested in a Jap? There's one in a shop right on our wa to lunch. Just to check my opinion of it, I'd like you to tak a look." I looked and found a 6.5-mm. Arisaka spotless in an out, and with fitting of wood to steel that even Linde wouldn't have been ashamed of. After some haggling abou price, I laid down my money and walked out with the Arisak

When I took the Jap rifle apart, I liked everything I saw—good heavy lugs on the bolt, liberal gas escape ports, a co venient safety, nice workmanship throughout. I put the Arisak together, wheedled a few Jap cartridges from a friend, an fired the rifle at 50 yards. It put three holes in a ⅝-inch grou and I figured it was worth more thought. There was no hop of obtaining and using Jap ammunition, however, since the car tridges had Berdan primers and very poor brass, two case having split when I fired the three shots.

Next I began checking the Jap cartridge dimensions agains American cases that might be used in the gun, which was lengthy process, so in the interim I whittled the gun down. whacked the barrel off to 24 inches and found it harder t cut than an Enfield receiver, requiring about twelve hacksa blades just to cut through it. The receiver, on the other hand is not hard but it is tough, the metal in it tapping much lik nickel-steel. Using an Enfield front sight band and cutting dovetail in it, I mounted a favorite Marble Vickers for th front sight. The Redfield 102 receiver sight made for th Springfield fits very well on the Arisaka since the Jap receiv is slightly larger than the Springfield, giving the sight a fi edge fit. The bolt was bent down and the knob of reduced in size.



Bend bolt handle by sawing almost through about half-inch f bolt, packing bolt with moist cloth and filling cut by weld

The Arisaka stock fitted so well that it was too good discard so we looked it over to see what could be done with The wood was a whitish color which planed well but show soft under the rasp and sandpaper. Not knowing how well it would stand up, I left the stock fuller than I would have a walnut stock, with a particularly large beavertail fore-end. I debated some time on what finish to use, finally settling on oil and shellac to darken the wood. Now I'm sorry that I didn't use plain lacquer since the soft wood needs something tough to protect it.

In deciding what case we could use in the rifle we had to hold in mind that the Jap chamber was, as I understand most of them are, sloppy and somewhat oversize. For that reason, we were fussy about using a case with a good fit at the back end of the chamber. The 6.5 Mannlicher, which is scarce anyway, was ruled out and also the .220 Swift, which otherwise should be a natural. We tried the .250 Savage but found it cracked quickly at the expanded shoulder, anyway it had too short a neck for reloading. We wanted good brass which would stand a lot of reloading in order to keep the cost of ammo down.

After checking the mike measurements of every case available, we finally boiled down to the following possibilities: the .257 Roberts, the 7-mm. Mauser, or the .30-'06 resized. The latter is a considerable job to reload unless you are equipped with resizing dies, so we settled on the .257 Roberts as being a new modern case of excellent design and material.

Phil Crouthamel of the Lansdowne Sports Company of Lansdowne, Pennsylvania, rechambered the gun for me and he and I and Mr. McKean, head of the company, discussed the rifle. They had prooftested the gun to 75,000 pounds and felt that 40 grains of 4895 powder behind the 120-grain Speer bullet, which figured to give about 50,000-pounds pressure, should be considered a maximum load for the gun. They believed that the rifle would shoot the box of Peters .257 with 117-grain Inner-Belted bullets 'as is' and suggested I shoot it carefully from the bench rest as the easiest way to get my empties in addition to being very interesting. The result of the test was satisfactory, furnishing the reason for this article.

The next weekend I went out to the range and set up a sighting target with a large piece of brown paper behind it so I would be sure to hit somewhere when firing from our regular 100-yard range with a good bench rest. At the time the gun had the military open rear sight and a bead front sight blackened for the occasion. The report and recoil of the rifle seemed normal for a .257. Firing a 15-shot group to eliminate the accident or gamble phase, it put all 15 shots in a 5½-inch group—fair hunting accuracy.

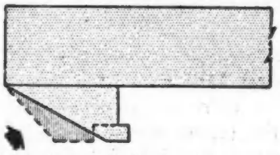
I then fired at 50 yards with the battle sight and placed one bullet 6 inches below aim and about ¾ inch to the right. Shot number 2 touched the first bullet hole. Shot number 3, using the fixed sight on leaf, was 2 inches below aim. Number 4 was fired with lowest slide setting on leaf (500 yards) and the bullet hit 1 inch above aim. All four shots had less than ½-inch horizontal deviation.

Shooting on the 100-yard target with same sight setting, the first three shots grouped in 1-inch vertical and 2⅛-inches horizontal spread. As the barrel heated up the group moved to the left and reformed lower, closer to the center of bull. The group from the hot barrel measured about 2¾-inches horizontal and 1⅞-inches vertical.

With the empty cases and twenty Speer 120-grain soft-point bullets given me by Mr. McKean, backing away from his maximum load, I took a stab in the dark and loaded 35.4 grains of 4895 behind the bullets. Five out of the seven shots grouped in an area ½-inch wide and 1½-inches high (still open sights), but two flyers enlarged the group to 5¾-inches horizontal spread. One of the flyers was a bad hold but not the other. Apparently the charge was not quite right yet.

Wanting to shoot more, and having neither lead nor jacketed .257 bullets, I decided to try some 87-grain .25-caliber soft-point spitzers, which had been lying around for a year or so. They mike exactly .257 inch, whereas the barrel slugs mike .262 inch. I tried several powders and charges and finally hit on 20 grains of 4198 as the best. A four-shot group obtained firing the loads measured 1½-inches vertically and 2¼-inches horizontally using a peep sight.

At first the magazine of my Jap would not feed the .257 Roberts cartridges properly—they would hit point on at times—and it was necessary to relieve the sides of the magazine well slightly to correct the fault. Even now it will not feed short cartridges reliably, but full-length loads work perfectly.



Shaded area indicates how sear must be built up by welding and notch moved to rear in altering Jap rifle to cock on opening of bolt

After obtaining loading tools from Belding and Mull, I acquired some Speer 120-grain and MGS 129-grain spitzer soft points and have been able to work up some more loads. They are still first tries, however, and subject to considerable improvement after experimenting.

The best load with the Speer so far is 38½ grains of 4895, lot number 25136 (all data given here is with lot 25136). Incidentally, watch No. 4895 as there is considerable difference between lots. Start with low charges and work up towards the figures given here. The 5-shot group fired with the 38½-grain load measured 1⅝-inches horizontally and ⅞-inch vertically. Velocity is estimated at about 2850 foot-seconds with energy comparable to .35 Remington loads.

Loads with thirty-three grains of 4895 did not do so well, measuring 3-inches horizontally by 2-inches vertically. The heavier 129-grain MGS bullets mike .001 inch larger than Speer bullets so I reduced the charge and settled on 37.4 grains of 4895. The hits of only four shots on the first target after sighting-in are 10's and the group measures 1⅞-inch vertical x ⅜-inch horizontal. Another group with the same load measured 3-inches horizontally by 2-inches vertically, however the 5-shot cluster indicates it is potentially the best load.

Wanting more empty cases, I fired a box of Western 100-grain Silvertips. The bullets didn't stay on the paper at all, indicating that they don't fully upset in the oversize barrel. The 117-grain bullet, with its greater weight and bearing, does seem to upset enough for reasonable accuracy.

Loaded with the 6.5-mm. bullet, the Roberts case is also called the 6.5 Spence as Spence and Ackley are reported to have had much to do with its development and probably can supply much additional data on it. It is an excellent cartridge, I am convinced, with the ability to handle light bullets at high velocity and heavy bullets with medium velocity and excellent penetration. Bullets are available in 100, 120, 129, 140 and 156 grains. For eastern brush-shooting, I would prefer the 156 grain at about 2450 foot-seconds, a very pleasant load.

Some of those who find a good Jap may be interested in a scope. Because the bolt handle slides in a receiver groove, it is very difficult to bend sufficiently so a low mounted scope can be used. This was discouraging at first but I discovered a saving feature, that the bolt handle is about ¾ inch closer to the eye than on the Springfield, and the Weaver J2.5 and the Noske have sufficient eye relief to mount ahead of the bolt. The straight smooth receiver is almost ideal for a side mount and, in fact, the latter is almost mandatory as positioning of the scope leaves almost no landing for a top mount. ◆ ◆ ◆

THE OLD COACH'S PAGE

The few hints given here on international shooting come from a top-notch American small-bore shooter who fired on the Olympic team last year, who won the National Small-Bore Championship last year, who is an excellent position shooter. Containing no new observations on shooting technique, the article does indicate what aspects of three distinct types of rifle shooting must be gathered into one technique by the man who aims to be successful in placing on the International Team this fall.

INTERNATIONAL THREE-POSITION SHOOTING

With the International Matches drawing nearer, shooters are becoming more and more conscious of international-type shooting. Since there are more shooters than ever before interested in the target game, this year's tryouts ought to be very hot. Here are a few thoughts and hints which may help in preparing for international competition.

To begin with you must know the courses of fire which you will fire. The three-position course consists of 40-shots prone, 40-shots kneeling and 40-shots standing. This course will be fired with the small-bore free rifle at 50 meters, and the center-fire or full-bore rifle at 300 meters. The only other courses of fire will be pistol, 50- and 100-meter small-bore rifle, and military rifle. Since we're interested in the position courses of fire in this article we'll mention only the 50-meter and 300-meter courses.

The first things you must master are the basic fundamentals. You have to be familiar with the positions involved as well as breath control, trigger squeeze and equipment. In order to get a good basis for outdoor position shooting a knowledge of indoor position practices is invaluable. Indoor shooting is undoubtedly the finest practice a shooter can get. When you've finished the indoor season now winding up and go outdoors, then you should have no difficulty at all in making the switch, except for a few minor changes.

Perhaps the most difficult change will be that of shooting in the wind. Not wind doping but actually adapting your position to shooting in the wind and trying to overcome the breeze that's blowing your rifle and thus blowing you. It doesn't take much aid from a little gust of wind to blow the rifle enough so that when you're sighted on one bull, you end up on another. The worst part of this wrestling match is that when you have worked hard and changed your position to compensate for wind slippage and perhaps are lucky enough to win yourself a berth on the International Team, you'll find that the actual shooting is done from an enclosed firing line where you won't have to worry about the wind, except from the wind doping angle.

Let's not be discouraged yet, though, because the first thing to do is to concentrate on making the team, and since there are no enclosed firing points in the tryouts you should try to get in as much practice in the windy conditions as you possibly can.

When you begin firing outdoors you will probably find you need to exercise more muscular effort or control in shooting in the wind than you did in gallery shooting. This is a fact that must be adapted to the shooter himself and therefore there's no standard rule to follow.

There are a few rules that are different from NRA rules and have been mentioned several times before in earlier articles. The main differences are the acceptance of the set-trigger, Schuetzen buttplate and palm rest for most shooting. The only major position difference is in the kneeling position. Until the Olympic matches last summer, the American kneeling position which allows the shooter to sit on the side of his right foot was prohibited. That rule has been changed, however, and the American position is now legal. The European position allows the use of a round roll or pad under the instep, so that when a shooter is shooting kneeling he is sitting on his right heel. This position is much higher than the standard NRA position but it can be used very effectively by many shooters.

The Schuetzen buttplate may be very advantageous to many but it is not a necessity for international shooting. Any buttplate that will stick to the shoulder pad without slipping is a good buttplate and is all that's needed. Set-triggers are legal for those who want them and are excellent if you've had plenty of practice with them, but they are a hinderance if you're not accustomed to their use. The palm rest is a definite advantage on good days. On windy days, however, its use may present quite a problem.

The great disadvantage in the tryouts for the International Matches will probably be in the use of palm rests. If conditions are windy when the tryouts are held, then the palm rest will be a hinderance. If the conditions are calm, then the palm rest will be a big help.

When practicing kneeling and standing in the wind, you will have to do more than just 'hold 'em and squeeze 'em.' You will have to dope wind as well. The best way to do this is to secure an extension for your scope stand and shoot with the scope near your eye, as in the prone position. Then you will be able to keep tabs on the mirage changes as well as be able to spot each shot.

Whether you shoot from 50 meters or 300 meters outdoors, you can use the same positions in each case. The main difference is in recoil. Once you have mastered the recoil of the heavy caliber rifle you shouldn't have any more trouble at either range.

Of course, you must remember that all international shooting is done with iron sights. This should be some incentive to junior shooters and college shooters who shoot almost exclusively with iron sights. These younger shooters will be ahead of the game as they will be used to shooting the three-position course of fire with iron sights indoors. The only thing that remains for them to do is to practice shooting outdoors and adapt the outdoor conditions to their shooting.

C'm on fellers, let's get down to brass tacks and make that International Team. ◆ ◆ ◆

THE SPOTTING SCOPE -- June 1949

New assistant DCM is Infantry team and Camp Perry veteran, Lt. Col. Frank R. Lloyd . . . who spent the war with Philippine guerrillas on Bataan. . . . Buy or borrow the May issue of American Magazine and read the articles, "It Could Happen to You" and "Will the Wasters Win Again". . . and then reread the editorial in this issue of THE RIFLEMAN. . . . Flagrant game hoggery is inexcusable anywhere and harmful to the future of hunting. . . . I. N. Wagner, of Ashland, Ohio, reports that taking guns and ammunition into Ethiopia is now prohibited since a Britisher took in a party of 80 and slaughtered 6,000 head of big game. . . . QUOTE from a letter by Police Sergeant William L. Andreasen, San Mateo, Calif. . . . "Contrary to the popular conception of police attitude toward civilian and juvenile firearms programs, here in a city of 40,000 population we encourage to our fullest extent the proper use of firearms. I, personally, am a regular sergeant of police and it is part of my regular duty to assist and train these youngsters.". . . Sgt. Andreasen reports his group now numbers 125 youngsters, has just earned 107 NRA qualifications, expends 17,000 rounds of ammunition per month.

Serves 'em Right Dept.: Florida wildlife officers Ross Summers and Walter Larkin recently caught two night hunters by use of a dummy deer equipped with luminous discs for eyes, ear flaps, and antlers . . . are now perfecting a dummy turkey that will pick up corn.

Don Stillman, popular rod and gun columnist for the New York Herald Tribune, died recently in New York. . . . Recent new NRA member applications include one from David W. Barkley, son of the Vice-President. . . . Sheriff Cornelius A. Wall and ten special deputy sheriffs who compose the Middlesex County (N. J.) sheriff's pistol team are touring the county and giving demonstrations on proper gun handling . . . will reach all schools plus many civic and service clubs . . . and local newspapers are backing it up. . . . The Massachusetts Fish and Game Association's junior conservation plan is away winging . . . as 100 junior high schoolers turned out for the first outdoor 'lab' session on safe gun handling at Melrose. . . . The venture will teach youngsters good conservation practice and how to hunt and fish, during regular school sessions. . . . Kentucky has also had a similar project going.

There'll be no Nationals at Camp Perry again this year (or forever, perhaps), but Ohio and nearby matchmen have two events scheduled there in August . . . on the 13th and 14th for .30 caliber and 20th and 21st for small boresmen, according to John Lang. . . . Here's how an international business transaction can make it tough on deer . . . English team merchants, who have been using yellow birch and maple veneer for crating the product for shipment from the East, recently switched contracts from Michigan's upper peninsula to Sweden . . . which will mean decreased logging and unemployment and, eventually, less browse available for deer . . . which can lead to overpopulation and food shortages. . . . All twenty-two rifle and pistol regional championships this year will be scenes of small scale NRA members' meetings. . . . Chairmanned by a member of NRA's Executive Committee or a member of the special .30-caliber, small-bore, or pistol committees, the meetings will be open for recommendations of rules changes or changes in match procedure . . . or any other pertinent subject brought up from the floor. . . . James A. Fox, of the Information and Education Committee of the Associated Sportsmen of California, reports much interest in their shooting exhibit at the recent San Francisco outdoor show . . . estimates that 60,000 persons saw NRA's film, "Trigger Happy Harry."

Fine examples of what smaller town clubs can do publicity-wise come from Secretary-Treasurer Earl J. Lucas, of the Sparta (Wisc.) Rifle and Pistol Club . . . full columns from papers located as far as thirty miles from Sparta. . . . Rekindling of the hot Jackson Hole (Wyo.) National Monument battle has spurred conservationists into action in protest of a rider which would again prohibit any money being spent to make the monument serviceable for tourist-sportsman use . . . as they charge that 'land grab' opponents aim for the abolishing of this and other monuments. . . . Biggest meeting of shooters ever will be held this fall. . . . Of course, it's the 2nd Annual NRA Convention scheduled for Denver, October 17-21.

Ray Stann

Nine Universities Place Men On 1949 All-American Rifle Team

Five eastern universities, three from the Big Ten and the University of California placed men on the first-team 1949 All-American Rifle Team. The NRA selection board and the votes of 65 college coaches tabbed two men from West Point, two from California, and one each from the University of Maryland, Georgetown University, George Washington University, Minnesota, Ohio State, and Wisconsin as the outstanding marksmen in the 1949 college ranks.

The line-up for the tenth All-American Team picked since 1936: Lucien Eugene Bolduc, Jr., (West Point), of Worcester, Mass.; Amos Clark Mathews, (West Point), of Evanston, Ill.; 1948 National and Olympic Champion Arthur Cook, (Maryland), of Washington, D. C.; Henry Daniel Cross, (Georgetown), of Holmdel, N. J.; 1949 National Individual Intercollegiate Champion Woodward G. Eicke, (George Washington), of Washington, D. C.; Paul Daunt Haglin, (Minnesota), of Minneapolis, Minn.; George Wilson Martin, (Ohio State), of East Liverpool, Ohio; Leonard Maudens, (California), of San Mateo, Calif.; Robert C. Ribak, (California), of Berkeley, Calif., and John M. Thompson, (Wisconsin), of Madison, Wisconsin.

Maryland, 1949 National Intercollegiate Team Champion, could only place one man on the first team, while second-place West Point and third-place California grabbed two places apiece.

Three seniors, Mathews, Martin and Ribak, made the team. Five members, Bolduc, Cook, Haglin, Maudens and Thompson, have one more year of eligibility and the individual college champion Eicke and Cross are both sophomores.

Cook, Martin and Mathews were selected as All-Americans for the third time, all three being chosen in 1947 and 1948. Bolduc repeated from the 1948 team while Thompson moved up from the 1948 second team.

Arthur Cook led the team with the high shooting average for the third straight year. In eighteen college matches, he averaged 290.4 points out of a possible 300. He was followed by Haglin at 287.1 and Thompson 285.8. The individual champion, Eicke, was eighth on the team with 283. Other averages were: Mathews, 285.5, Ribak, 284.5, Martin, 284.7, Cross, 284.4, Bolduc, 282.8, and Maudens, 281.5. All team members participated in at least 10 matches.

The Universities of Maryland and Minnesota placed two men each on the second team, with San Francisco, Wyoming, Annapolis, Oklahoma A&M, Penn State and California sharing the other six places.

The line-up for the second team: Thomas Lee Taylor, (Maryland), Baltimore, Md.; James M. Wells, (Maryland), Fredonia, N. Y.; Darrell Rupp, (Minnesota), Minneapolis, Minn.; Lawrence Marshall Anderson, (Minnesota), Minneapolis, Minn.; Allan Boone Crow, (San Francisco), Oakland, Calif.; George Charles Earley, (Wyoming), Lander, Wyoming; Ralph McDowell Ghormley, (Annapolis), Rochester, Minnesota; David L. Hamilton, (Oklahoma A&M), Tulsa, Okla.; Gerald Frank Prange, (Penn State), Lancaster, Pa.; Frank Sawyer, (California), San Pedro, California.

The top twenty were selected from over 3,000 college riflemen at 180 colleges and universities. The first team will receive gold bullets from the NRA in recognition of their All-American status while both squads will receive certificates.

Selections have been made since 1936 with no choices from '43 to '46.

NEW PISTOL CLASSIFICATION

As announced in the April RIFLEMAN .22-caliber pistol classification and center-fire pistol classification were divorced, as of June 1, following the directive issued by the National Rifle Association Executive Committee at its meeting, February 26th.

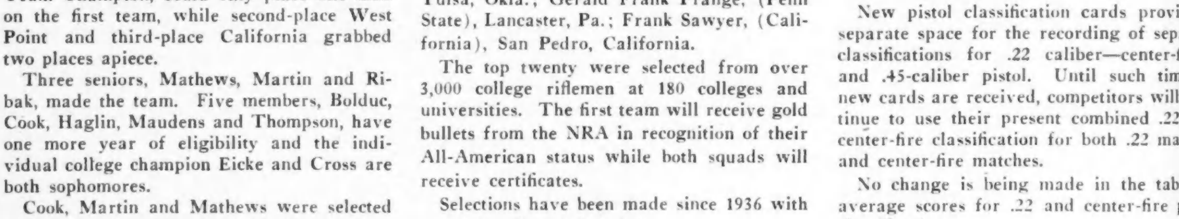
Prior to the June date, scores fired in .22-caliber and center-fire matches were combined for purposes of classification. Now, following out the Committee's directive, new pistol classification control records are being kept for each shooter who has fired in one or more NRA Registered Pistol Tournaments. Old averages are still being carried in the new record, but, in the future, .22-caliber scores will be posted and averaged separately from center-fire scores.

Coincident with the classification change, the number of scores required for pistol classification was lowered from twelve match scores to eight.

For the present all shooters who have a combined .22 and center-fire pistol classification will continue to use that classification for both .22-caliber and center-fire pistol matches. As soon as eight center-fire matches have been recorded on the control card in the NRA office, a new center-fire classification for that competitor will be established. This classification may be either lower or higher than at present. The .22 classification, however, will not be lowered except through the formal procedure already established in the official rules.

New pistol classification cards provide a separate space for the recording of separate classifications for .22 caliber—center-fire—and .45-caliber pistol. Until such time as new cards are received, competitors will continue to use their present combined .22 and center-fire classification for both .22 matches and center-fire matches.

No change is being made in the table of average scores for .22 and center-fire pistol classification.



These are the silver awards that will be presented to the various winners of the twenty-two Regional Championships being held throughout the United States this summer. Pictured above are the pistol prizes. In the small-bore competition there will be one less team award and two minor changes in the sub-aggregates. Total value of the prizes is $18,500.

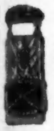
Clubs and COMPETITORS

Effective June 1, 1949, NRA club dues for Class B affiliated clubs will be increased from $10.00 per year to $15.00.

Few clubs will be affected by this increase inasmuch as relatively few clubs retain the Class B affiliation. Seventy per cent of all clubs are affiliated under the Class A plan which requires no annual club dues and, in addition, permits club members to obtain NRA memberships at $3.00 a year.

Many Class B clubs which affiliated years ago when that specialized form of charter was open to anyone are now finding it to their advantage to change over to Class A. Any club or individual interested in more complete information can obtain full details by writing to the National Rifle Association.

* * *



In April, thirty-nine more boys and girls won NRA Junior Distinguished Rifleman qualification ratings. Young shooters from eighteen states are represented on the select list

Stanley Freeland	Evanston, Ill.
Kenneth Brown	Upper Darby, Pa.
JoAnn Mueller	Bozeman, Mont.
Tyler S. Soine	Portland, Oreg.
David Randall Banner	Polo, Ill.
William G. Friel, Jr.	Philadelphia, Pa.
Theodore W. Dick	Davenport, Ia.
Frank McCutchen, Jr.	Salisbury, N. C.
Herbert E. Cross, Jr.	Jacksonville, Fla.
Jack Turnquist	Bloomington, Ill.
Robert Howe	Pueblo, Colo.
Maurice J. Lambert	Lowell, Mass.
Donald Whittemore	Pueblo, Colo.
Clifford L. Hanan	Pueblo, Colo.
George Crownhard	Madison, Wis.
Marjorie Rose	Quincy, Ill.
Ray J. Cartwright	Kane, Pa.
Dolores St. Amand	Tacoma, Wash.
Grover Fridley	Xenia, Ohio
Ronald Grunden	Tacoma, Wash.
George R. Horton	Granville, Ohio
Thomas Laverne Fagg	Bend, Oreg.
Charles E. Miller	St. Joseph, Mo.
Thomas F. Torpy	Los Angeles, Calif.
William Shaffer	Vandergrift, Pa.
Richard D. Barker	Arlington, Mass.
John K. Snow	San Luis Obispo, Calif.
Evan Delmar Wright	Van Nuys, Calif.
Peter B. Webber	Portland, Maine
Charles F. Olsen	Norfolk, Va.
Don G. Noyes	Zanesville, Ohio
Jack H. Channer	Batavia, Ohio
Luther R. Lloyd	Youngstown, Ohio
Joe R. Koehler	Dayton, Ohio
Edwin Geffken	Hollis, N. Y.
Jack Brand	St. Louis, Mo.
Ronald Peterson	Kane, Pa.
Vaughan Wright	San Luis Obispo, Calif.
Sydney Cole	Dallas, Texas

An NRA legislative bulletin and the Conn. State Rifle Association placed so much pressure on State Sen. Pollotti that he withdrew his firearms permit bill prior to the hearing held at Hartford on April 19. A substitute bill introduced at the hearing was effectively quashed by several speakers who advised the legislative committee just how they felt concerning restrictive anti-firearms legislation.

People who attended the hearing were impressed by the fight put up by one little pistol shooter hailing from Bridgeport. She sailed into Senator Pollotti like a mad hornet, punching his arguments so full of holes that he never had a chance.

* * *

Some real hair splitting was necessary to determine the 1949 National Junior Team Championship. As noted in these pages last month, three teams were tied with identical total scores of 745 and two of them had scores of 353 in the standing position. Targets had to be called in from the two sectional tournaments involved, one in Connecticut, the other in Washington. Inspection of those targets proved the Glendale Post VFW 3075 junior team, of Washington, as top team. The lowest valued shot on all their standing targets was a five. Their closest competitor, Hamden High School, showed a miss. Winners of the Alamo Trophy and 1949 Junior Champions—the Glendale Post.

DCM NOTES

As announced in the Rifleman for May, orders from NRA members desiring to purchase serviceable M1917 rifles, which were received by the DCM after October 5, 1948, cannot be filled due to exhaustion of the limited supply of that rifle. Such orders are being returned to purchasers. Orders for unserviceable M1917 rifles received after October 4th are being held by the DCM until such rifles are made available by the Ordnance Department. These orders will be processed as rapidly as possible when rifles become available.

Orders for unserviceable M1903 rifles received by the DCM up to October 12th have been sent to arsenals, and processing of orders received after that date is continuing.

AMMUNITION AND NEW PRICES. Cartridge, ball, cal. .30 M2 is the only .30 cal. ammunition now available for sale through DCM. Packed 5 round clips, 1500 rounds to box, $79.00 per M. Not less than 600 rounds (10 bandoleers) to a customer. Cartridge, ball, cal. .45 M1911, packed 50 per carton, 600 rds to metal can, 2 cans to case, $60.00 per M. Not less than 600 rounds (1 metal can) to a customer.

*NOTE: Cartridge, ball, caliber 22 long rifle, new price $71.70 per case of 10,000 rounds plus packing charge and excise tax. For sale to NRA Clubs only.

CHANGES IN PRICES FOR PARTS FOR U. S. RIFLE, CAL. .30 M1903. Many prices for parts for the M1903 rifle have been cut in half. Major changes: barrel $5.25; stock $2.25; trigger guard $1.54, etc.

SERVICEABLE RECEIVERS FOR M1903 and M1903A1 CAL. .30 RIFLES. Receivers are available for M1903 and M1903A1 rifles on replacement basis only. Old receiver must be turned in before serviceable receiver will be shipped. Instructions for accomplishing this return will be furnished by DCM. Price $7.90 plus 10% packing and handling.

PARTS NOT AVAILABLE. Screws, guard, front for M1917 rifle; barrels for M1917 rifle.

NEW ITEMS AVAILABLE. Spare parts for the U. S. Rifle, cal. .30 M1903A3 are available. These are not shown on the price list. Major items available are: barrel $10.00; bolt $5.25; extractor $1.25; bolt sleeve $1.75. Screws, pins, springs of various types are also available.

**AMMUNITION COMPONENTS AVAILABLE AND NEW PRICES.* Bullets, cal. .45 $7.80 per M; primers, cal. .30 $2.25 per M; primers, cal. .45 $2.25 per M; bullets, ball, cal. .30 M2, 152 grain, $20.00 per M, not less than 100 nor more than 1000 to a customer; cases, cartridge, cal. .30 M1, primed, $41.00 per M, not less than 100 nor more than 1000 to a customer; IMR powder *80¢* per pound. Powder is packed in 150 lb. containers—lesser amounts sold if purchaser can supply own container.

*NOTE: The Club Secretary may submit a consolidated order for Ammunition Components or Ammunition for NRA members of the club.

JUNIOR POSTAL MATCHES

Final honors in the five divisions of the 1948-49 NRA junior rifle team postal matches were concentrated in the hands of a few topnotch junior clubs. The high scoring Glen Post VFW 3075 shooters from Seattle captured first place in the "Open" (prone and standing) division and second place in the Non-Scholastic and Cub Divisions. Munhall High took two first places, one in the Non-Military Scholastic Division, the other in the Girls' Team Division. Xavier High of New York City also had a pair of firsts in the Military Scholastic and Cub Divisions. The Arlington Rimfire juniors from Virginia won top spot in the Non-Scholastic Division and second place among the "Open" teams. The only other "repeater" was Upper Darby High School with a second in the Non-Military Scholastic group and third place honors among the Girls' Teams. The three high teams for each division and their scores are shown below:

DIVISION A—OPEN TEAMS

1.	Glen Post VFW 3075, Seattle, Wash.	3731
2.	Arlington Rimfire Jr. R. C., Arlington, Va.	3708
3.	Detroit Edison Jr. Div., Detroit, Mich.	3708

DIVISION B—SCHOLASTIC, NON-MILITARY (PRONE)

1.	Munhall High School, Munhall, Pa.	1995
2.	Upper Darby High School, Upper Darby, Pa.	1989
3.	Grover Cleveland High School, St. Louis, Mo.	1979

SCHOLASTIC—MILITARY

1.	Xavier High School, New York, N. Y.	1971
2.	Cretin High School ROTC, St. Paul, Minn.	1959
3.	Cadet Rifle Club, Hays, Kans.	1950

DIVISION C—NON-SCHOLASTIC (PRONE)

1.	Arlington Rimfire Jr. R. C., Arlington, Va.	1982
2.	Glen Post VFW 3075, Seattle, Wash.	1980
3.	Akron Sharpshooters, Akron, Ohio	1968

DIVISION D—CUBS (UNDER 15 YEARS OF AGE) PRONE

1.	Xavier High School, New York, N. Y.	1930
2.	Glen Post VFW 3075, Seattle, Wash.	1929
3.	Polo Community High School, Polo, Ind.	1929

DIVISION E—GIRLS' TEAMS (PRONE)

1.	Munhall High School, Munhall, Pa.	1980
2.	Mansfield YMCA, Mansfield, Ohio	1959
3.	Upper Darby High School, Upper Darby, Pa.	1941

SUMMER LEAGUES

All NRA clubs have been forwarded applications for entry in the 1949 registered summer league competitions. Club secretaries are asked to make their entries early so that the league program may be checked by the NRA competitions section. The match conditions mailed with the entry blanks give complete details pertaining to courses of fire, awards, time of firing, etc.

Any NRA affiliated organization may sponsor a registered summer rifle or pistol league. It is necessary to have a minimum of three teams to make up a league, although a larger league is preferable for the shooters' enjoyment. Most leagues find that seven to ten teams give the best program. The entry fee is five dollars per team up to five teams. All teams over five are entered free of charge, making the maximum entry fee per league $25.00. Entries must be received by the NRA not later than June 30, 1949.

In addition to the trophy for each league's winning team, there are brassards for the team members and medals and trophies for the State and National Championships.

Scores fired in the registered rifle and pistol leagues may be used for official NRA classification provided they are fired over a course of fire on which the national classification system is based.

Each league will be responsible for its own by-laws. The NRA, to make it easier for league secretaries, has league handbooks available which serve as a guide in drawing up by-laws. The book also contains sample schedules for various size leagues. Write now for complete information.

COLLEGE POSTAL MATCHES

In addition to the NRA Intercollegiate Rifle Championships, fired on a shoulder-to-shoulder basis with results announced in the May RIFLEMAN, several other special events for college shooters were conducted on a postal basis. The results of the competitions follow:

The pistol team event was dominated by the Service schools. Naval Academy teams captured both first and second places. The first team scored 1367, followed by the Academy's second team, 1364. Third position went to the Coast Guard Academy's 1361.

The pistol individual top honors went to Thomas Stephen, University of Alabama, whose 284 outranked that same score turned in by James Butler, of the Naval Academy. In third place was another midshipman, Robert Kennedy, whose 282 outranked the one fired by Casimir Gappa, of the University of Wisconsin. Charles Lehner, cadet at U. S. Military Academy, held the fifth spot with 280.

First-year men had their own event. Georgetown University captured the team victory by a good margin. Their 1395 was far above the second place winners, University of Wyoming's 1360. The Naval Academy took third with 1356.

Among the women the Drexel Institute team just managed to eke out a one-point win over the 2477 turned in by Oklahoma A and M. Beaver College's 2467 was good for third.

Honors were scattered among several schools in the Women's Individual Rifle Match. Audrey Richard, representing Florida State University, turned in the high score of 498. Second place went to Monmouth College's Hazel Hatch with 496, followed by Barbara Klein, Beaver College—494, Janice Sutherland, Drexel—493, and Patricia Pope, George Washington University—493.

COMING EVENTS

Regional Championship Tournaments (Class A) and State or Division Championships (Class B) only are listed below. All other N.R.A. Registered Tournaments are listed in a printed schedule that will be sent to any shooter upon request. Send your request by letter or penny postcard to the National Rifle Association, Competitions Section, 1600 Rhode Island Avenue, N. W., Washington 6, D. C.

Tournaments requiring advance entries are indicated by (Adv.). Tournaments limiting the number of entries that can be accepted are indicated by (Ltd.).

Always write to the tournament sponsor for a program in advance of any Registered Tournament you plan to attend. It is your assurance that you will know all of the details and the tournament conditions.

JUNE

3-4-5 (B) MARYLAND—Tenth Annual Maryland Revolver and Pistol Championships at Sparrows Point, Maryland. Marcus H. Miles, Sparrows Point Police Department, Sparrows Point, Maryland (Adv-Ltd)

4-5 (B) OKLAHOMA—Magic Empire Small Bore Rifle Tournament at Tulsa, Oklahoma. Matt Dunham, 1708 South Yorktown, Tulsa, Oklahoma (Adv-Ltd)

4-5 (B) CALIFORNIA—Bay District Small Bore Rifle Tournament at Richmond, California. Chilton DeWitt, 3701 Lincoln Avenue, Oakland, California (Adv-Ltd)

4-5 (A) ARIZONA—Regional Small Bore Rifle Tournament at Phoenix, Arizona. Glenn Taylor, 3110 East Manor Drive, Phoenix, Arizona (Adv-Ltd)

11-12 (B) MISSOURI—Missouri State Small Bore Rifle Tournament at Warrensburg, Missouri. A. G. Taubert, Warrensburg, Missouri.

11-12 (B) KENTUCKY—Kentucky State Open Pistol and Revolver Championship at Louisville, Kentucky. Harry M. Wheat, 4633 South First Street, Louisville, Kentucky

11-12 (B) COLORADO—Colorado State Small Bore Rifle Championship at Denver, Colorado. L. F. Markle, 1006 Olive Street, Denver (Adv-Ltd)

11-12 (B) CONNECTICUT — Twelfth Annual State Small-bore Rifle Tournament at East Wallingford, Connecticut. J. Russell Lent, c/o Lyman Gun Sight Company, Middlefield, Connecticut (Adv-Ltd)

11-12 (B) ARKANSAS—Arkansas State Pistol Tournament at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

11-12 (B) TENNESSEE—Tri-state Small-bore Rifle at Chattanooga. William J. Bonnie, 4023 Ealy Road, Chattanooga (Adv-Ltd)

18-19 (B) UTAH—State Small Bore Rifle Championship at Fort Douglas, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah (Adv)

17-18-19 (B) CALIFORNIA—Pacific States Championship Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Dept., San Francisco, California (Adv-Ltd)

17-18-19 (B) TEXAS—Annual .30-Caliber Rifle State Championship at El Paso, Texas. Henry H. Hankey, P. O. Box 287, Austin, Texas

19 (B) IOWA—Annual State Pistol Tournament at Davenport. Carl Prevratil, 110 East Columbia, Apt. #2, Davenport.

19 (B) MINNESOTA—Minnesota State Small Bore Rifle Tournament at Minneapolis, Minnesota. John A. Erickson, 3416 35th Avenue South, Minneapolis, Minnesota.

19 (B) OREGON—Oregon State Pistol Championship at Portland, Oregon. John S. Altman, 405 North Stanton Street, Portland, Oregon (Adv-Ltd)

24-26 (A) FLORIDA—Pistol Regional Tournament at Jacksonville, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv-Ltd)

25-26 (A) COLORADO—Regional Rifle Tournament at Denver. Lloyd Markle, 1006 Olive Street, Denver, Colorado

25-26 (B) MICHIGAN—Michigan State Smallbore Tournament at Flint, Michigan. Erv Brehm, 3813 Brewster, Dearborn, Michigan (Adv-Ltd)

25-26 (A) IOWA—Mid-Western Regional Small Bore Rifle Tournament at Des Moines, Iowa. Howard Smith, Box 1395, Des Moines, Iowa (Adv-Ltd)

25-26 (A) TEXAS—Regional Small Bore Rifle Tournament at Waco, Texas. B. Ramsey Powell, Central Texas Rifle and Pistol Club, Waco, Texas (Adv-Ltd)

25-26 (B) MISSOURI—Missouri State Pistol Tournament at St. Louis, Missouri. G. Klersch, 8314 Page Avenue, St. Louis, Missouri (Adv-Ltd)

JULY

2-3-4 (A) NEW YORK—Regional Pistol Tournament at Poughkeepsie, New York. Mrs. Martha W. Strahan, 30 Arnold Boulevard, Poughkeepsie, New York (Adv-Ltd)

2-3-4 (A) TEXAS—Regional Pistol Tournament at Dallas, Texas. Thomas D. Park, 208 No. Akard St., Dallas, Texas (Adv-Ltd)

2-3 (A) MONTANA—Regional Small Bore Rifle Tournament at Anaconda, Montana. Fred J. Mesenko, Anaconda Rifle and Pistol Club, 700 Oak Street, Anaconda, Montana (Adv-Ltd)

2-3-4 (B) HAWAII—Territorial Pistol Championship at Honolulu, T. H. G. W. Premo, 2323-B Ala Wai, Honolulu, T. H.

2-3-4 (A) VIRGINIA—Regional Pistol Tournament at Quantico, Virginia. Lt. Col. William L. Prickett, Provo Marshall, MCS, Quantico, Virginia (Adv-Ltd)

3-4 (B) PENNSYLVANIA—State Small Bore Championship at Altoona. John E. Kaylor, 709 4th Avenue, Juniata, Altoona, Pennsylvania.

4 (B) NEW JERSEY—Sea Girt Small Bore Championships at Sea Girt, New Jersey. Charles J. Walter, 497 Cornell Street, Perth Amboy, New Jersey.

2-3 (A) INDIANA—Regional Small Bore Rifle Tournament at Bristol, Indiana. Garnette R. Horner, 135 South Scott Street, South Bend 2, Indiana (Adv-Ltd)

9-10 (B) OKLAHOMA—Oklahoma State .30 Caliber Rifle Championship at Clearmore, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

9-10 (B) MARYLAND—Maryland State .30 Caliber Rifle Championship at Fort George G. Meade, Maryland. Earle S. Jones, Jr., 5036 Orville Avenue, Baltimore 5, Maryland.

9-10 (B) OREGON—Oregon State Small Bore Rifle Championship at LaGrande, Oregon. Herbert S. Miller, 2707 North 4th Street, LaGrande, Oregon (Adv-Ltd)

8-9-10 (A) COLORADO—Regional Pistol Tournament at Denver, Colorado. Lloyd Markle, 1006 Olive Street, Denver, Colorado (Adv-Ltd)

9-10 (B) WEST VIRGINIA—7th Annual Small Bore Rifle Tournament at Parkersburg, West Virginia. R. A. Simpson, Fort Boreman Rifle Club, Parkersburg, West Virginia.

9-10 (A) CONNECTICUT — Northeastern Regional Small Bore Rifle Tournament at Middlefield Connecticut. J. Russell Lent, Middlefield, Connecticut (Adv-Ltd)

10 (B) TENNESSEE—Tennessee State Pistol Championship at Nashville, Tennessee. R. Thurmond Hayes, Hemlock Avenue, Nashville, Tennessee (Adv)

16-17 (B) OKLAHOMA—State Small Bore Rifle Championship at Tulsa, Oklahoma. E. M. Fuller 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

16-17 (A) MONTANA—Regional Pistol Tournament at Anaconda, Montana. Oscar Landet, Anaconda Rifle and Pistol Club, Anaconda, Montana (Adv-Ltd)

16-17 (A) MICHIGAN—Regional Pistol Tournament at Flint, Michigan. Kenneth Gilman, 1330 Begole Street, Flint, Michigan (Adv-Ltd)

16-17 (B) OHIO—Ohio State Individual Small Bore Championship at Mt. Gilead, Ohio. John E. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv-Ltd)

16-17 (B) UTAH—Utah State .30 Caliber Rifle Championship at Fort Douglas, Utah. David P. Sugden, #3 North 7th West Street, Salt Lake City, Utah (Adv)

15-16 (B) NORTH CAROLINA—13th Annual North Carolina State Small Bore Rifle Tournament at Conover, North Carolina. Glenn Sipe, Route 2, Conover, N. C. (Adv-Ltd)

16-17 (A) CALIFORNIA—Regional Small Bore Rifle Tournament at Los Angeles, California. Mrs. Gladys Rising, 600 North Mayo, Compton, California (Adv-Ltd)

17 (B) WISCONSIN — State Highpower Rifle Championship at Racine, Wisconsin. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin

23-24 (A) PENNSYLVANIA—Eastern Regional Small Bore Rifle Tournament at Harrisburg, Pennsylvania. George A. Spaid, 3017 North Third, Harrisburg, Pennsylvania (Adv-Ltd)

22-23-24 (A) IOWA—Regional Pistol Tournament at Davenport, Iowa. Carl Prevratil, 110 East Columbia, Apt. 2, Davenport, Iowa (Adv-Ltd)

23-24 (B) ARKANSAS — State Thirty Caliber Championship at Little Rock, Arkansas. H. L. Remmel, 112 West 9th, Little Rock, Arkansas (Adv)

23-24 (B) WASHINGTON — Washington State Small Bore Rifle Championships at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle, Washington (Adv-Ltd)

24 (B) INDIANA—Indiana State Small-bore Rifle Championship at Anderson, Indiana. Lt. Colonel John Friday, Building 115, Ft. Benjamin Harrison, Indiana (Adv-Ltd)

30-31 (B) OKLAHOMA—State Pistol Championship at Tulsa, Oklahoma. E. M. Fuller, 207 South Toledo, Tulsa, Oklahoma (Adv-Ltd)

31 (B) INDIANA—Indiana State Pistol Tournament at Bristol, Indiana. Mrs. Garnette Horner, 135 South Scott Street, South Bend, Indiana (Adv-Ltd)

31 (B) VERMONT—10th Annual Vermont State Pistol and Revolver Tournament at Northfield, Vermont. Louis B. Tims, 4 Wilder Street, Montpelier, Vermont (Adv-Ltd)

30-31 (A) WASHINGTON—Regional Pistol Tournament at Seattle, Washington. C. M. Styer, 120 West Hudson, Seattle, Washington (Adv-Ltd)

AUGUST

6-7 (B) TEXAS—Third Annual Permian Basin Small Bore Rifle Tournament at Odessa, Texas. C. W. Sellon, 1003 North Graham Avenue, Odessa, Texas (Adv)

5-6-7 (B) WASHINGTON, D. C.—United States Park Police Fifth Annual Pistol Tournament at Washington, D. C. Captain M. H. Rasberry, United States Park Police, Room 1215 Interior Building, Washington, D. C.

6-7 (B) LOUISIANA — Louisiana State Pistol Tournament at Shreveport, Louisiana. J. H. Flournoy, P. O. Box 1094, Shreveport, Louisiana. (Adv-Ltd)

6-7 (A) OREGON—Northwestern Regional Small Bore Rifle Tournament at Portland, Oregon. Herbert T. Brown, 7159 S. W. 4th Avenue, Portland 1, Oregon (Adv-Ltd)

12-13-14 (A) ARIZONA—Regional Pistol Tournament at Prescott, Arizona. Mack Weiss, Box 1024, Prescott, Arizona (Adv-Ltd)

13-14 (B) NEW YORK—Western New York State Small Bore Rifle Championship at Auburn, New York. Herman Dickman, 214 South Seward Avenue, Auburn, New York.

14 (B) MARYLAND—Maryland State Small Bore Championship at Stemmers Run, Maryland. John E. Ruppert, 42 East Heath Street, Baltimore 30, Maryland. (Adv-Ltd)

13-14 (A) TENNESSEE—Southeastern Regional Small Bore at Chattanooga, Tennessee. Paul Zenns, 808 South Moore Rd., Chattanooga, Tenn. (Adv-Ltd)

19-20-21 (A) CALIFORNIA — Regional Pistol Tournament at Bakersfield, California. Captain LeRoy F. Galyen, California High Patrol, Bakersfield, California (Adv-Ltd)

20-21 (B) NEW YORK—New York State Small Bore Rifle Championship at Bethpage, New York. V. B. Cleaver, P. O. Box 356, Hicksville, Long Island, New York (Adv-Ltd)

20-21 (B) OHIO — Third Annual Ohio Pistol Tournament at Columbus, Ohio. Lt. A. L. Schmeig, 368 East Kanawha Avenue, Worthington, Ohio (Adv-Ltd)

13-14 (B) OHIO—Ohio State .30 Caliber Rifle Championship at Camp Perry, Ohio. Ray T. Bayless, 7301 Euclid Avenue, Cleveland 3, Ohio (Adv)

21 and 28 (B) HAWAII—Territorial Small Bore Rifle Championship at Honolulu, Hawaii. George Premo, 2323-B Ala Wai, Honolulu 37, Hawaii.

21 (B) WISCONSIN—Fifteenth Annual Wisconsin State Small Bore Championship at Racine, Wisconsin. Dexter F. Rhodes, 3828 West Sheridan Avenue, Milwaukee 9, Wisconsin (Adv)

27-28 (B) GEORGIA—Second Annual Georgia Carolina Rifle Tournament at Augusta, Georgia. O. J. Barrett, Jr., Route #1, Augusta, Georgia (Adv-Ltd)

27-28 (B) MICHIGAN—Michigan State Pistol Championship at Milford, Michigan. Walter LaMoria, Brighton, Michigan (Adv)

28 (B) NEBRASKA — Nebraska State Pistol Tournament at Lincoln, Nebraska. H. H. Buis, 1312 North 35th Street, Omaha, Nebraska.

28 (B) ILLINOIS—Illinois State Small Bore Championship at Naperville, Illinois. Mrs. Lew Mason, 473 Oak Avenue, Aurora, Illinois (Adv)

STOLEN GUNS

Hi-Standard pistol, H-D military, 6¾" barrel, #262462. A. P. Weaver, Jr., Apple Creek, Ohio.

Smith & Wesson K-22 Masterpiece, #23748; Smith & Wesson K-38 Masterpiece, #K-33807; Officers Model .38 (Target grip), #752104; Official Police .22 caliber (King full ventilated rib and cockeyed hammer) #12635. Ray E. LaNier, 560 Washington Place, East St. Louis, Ill.

Colt Woodsman, .22 caliber, #97029; Smith & Wesson, .22 caliber, #K-10263; Walther, .32 caliber, (7.65), #191421K; Walther, .22 caliber, #862227. Robert C. Wait, Mineville, N. Y.

Stolen from car on March 9th. Smith & Wesson, K-38, 6" barrel, #44196; Hi-Standard .22, Model A with heavy 6" barrel, #42254. Philip Fromhartz, 1568 East 7th St., Brooklyn, N. Y.

Enfield rifle, U. S. caliber .30, #180733. Fred W. Feger, 225 Madison St., Vallejo, Calif.

Colt target, Model .22, 6" barrel, #236948; Smith & Wesson, K-22, Target Master, #26897. John S. Johnson, 722-22nd St., N. W., Washington, D. C.

U. S. Army M1 Carbine, #7158068. Reward. C. G. Garner, Sr., Sarah, Ga.

Stolen from airplane vicinity of Anchorage, Alaska. Colt Woodsman, .22 caliber, 6" barrel, cut to exactly 4", Patriach Sight mounted very end of barrel. F. A. Bennett, Gulkana, Alaska.

Mannlicher, full stock, 6.5 mm., single trigger (an alteration), 18" barrel, oil finished Walnut, #6661; Weaver 330 scope, post reticule, cheap stamped Weaver side mount. A. T. Sewell, 1121 E. Camelback Road, Phoenix, Arizona.

The following guns were stolen from the Eads Manufacturing Co., 2502 Larimer St., Denver, Col., on either March 11 or March 12:

.30-'06 Enfield, #18989, remodeled with 24-inch barrel, Sporter stock, Weaver K-4 Scope and Tilden Mounts; .30-'06 Enfield, #66440, remodeled but not fully assembled at time of theft, with Bishop stock unfinished on outside, Redfield 70 receiver sight and Eads front ramp, trigger guard unaltered; .30-'06 Enfield, #275296, with home-made Bishop stock, receiver ears not removed, military bluing; .30-'06 Winchester Model 70, #19732, with Tilden scope mounts; .30-'06 Springfield, #1033399, drilled for Christy receiver sight, with home-made stock and Springfield front sight; .30-'06 Springfield, #974845, with new bolt showing machining bands and military stock cut to Sporter length; .270 custom-built Mauser (no number) with Fabrique Nationale receiver, Weaver K-4 scope, Redfield front ramp; 8 mm. Mauser (no number), new, in military laminated stock; 8 mm. custom-built Mauser, #4252, with sweat on front sling swivel on barrel, leaf sight, light-colored stock; 12 gauge Winchester shotgun, either #1008396 or #1002924, with Cutts compensator on 26 inch barrel; 12 gauge Winchester Riot gun, either #1008396 or #1002924, with perforated barrel shield and "U.S.A." on right side of action; .22 cal. Remington, bolt action, with tubular magazine (number unknown); .25 cal. Jap military rifle, 18 inch barrel, new, (no number); .25 auto. foreign make. Believed to be Belgium #20468; .38 Smith & Wesson military police model (number unknown); Complete revolver in parts. Nickel plated; .32 cal. J. & S revolver, nickel plated, #51342, missing firing pin and sleeve; .38 nickel plated revolver (number unknown).

PEGGY BUMPERS

Peggy Bumpers, Sec.-Treas., S.W. La. Rifle & Pistol Club, Lake Charles, La., says: "Any statement that I might make would ineffectually describe the beauty and distinction of Blackinton Medals, but they are tops in my medal case and no other medal I have seen can compare with them."

* * *

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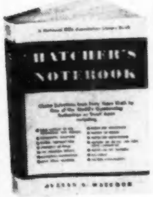

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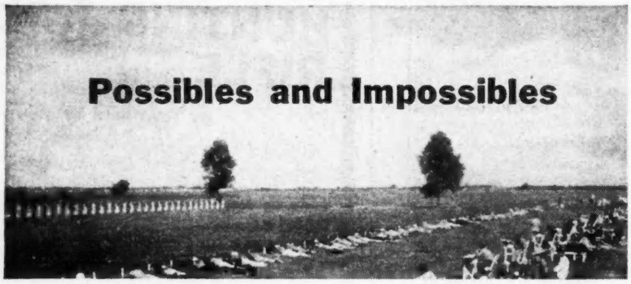
A PAPER FOR PEOPLE WHO SHOOT

Rifle Re

VOL. 12, NO. 6

BRIDGEPO UNE,

Possibles and Impossibles



Dust off your guns, blacken up your sights and get out on the firing line, you pistol shooters, for what promises to be the biggest outdoor pistol season ever. We had the pleasure recently of attending the National Mid-winter Championship at Tampa, and all agreed this was the largest pistol shoot of its kind ever held in the United States.

* * *

It was sure a sight for tired eyes to see all those Service, Police and Civilian teams battling it out on the line. The host really went all out to make this shoot the best yet, right down to that final, personalized touch—a necktie with his name down the center. And they sure had the Indian Sign on the weather—not a single bad day.

From Tampa on to Miami where the Palmetto Club had arranged a splendid program. This range is the pistol shooter's dream—no walking to the target, it walks to you. Get one of the boys who attended to tell you the story of the chicken snakes.

Calexico also came through with a most successful match, with an enthusiastic turnout of shooters from all over the Coast.

* * *

Well, the outdoor rifle season is in full swing, and the indoor season is just a memory — a pleasant one according to reports. We have received many bulletins from the various indoor leagues over the country and it looks like they have had a very successful indoor season. Some records have been broken and, in summing it all up, it appears that rifle shooting is still growing by leaps and bounds.

* * *

From the reports we have already received about outdoor matches, the attendance is on a par with last year. In a few cases, it's a little better than last year.

In looking over the list of outdoor tournaments scheduled for this year, it looks like there will be an opportunity for everyone to get in plenty of shooting. Of course, we get a little sentimental about the sport but it is a grand game with plenty of grand people in it—and it makes us kind of happy to look forward to another summer of shooting. And, what's more, we hope to meet you on the firing line sometime during the year.

* * *

For practically no reason at all, we have been having an office discussion about hunting wolves from airplanes. A friend from the border country of Northern Minnesota just wrote us about using a shotgun for knocking over those deer-killers from a low-flying plane. We've been wondering how a rifle would work but before someone offers to take us up on a hedge-hopping wolf-hunt with a rifle, we're going to change the subject.

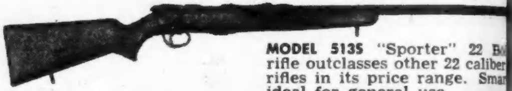
* * *

Since the first of the year we have received many inquiries from hardware and sporting goods stores over the country requesting literature on rifle club organization and plans for building an indoor rifle range in the basement of a store. We are very glad to see this interest because we believe a range of this type provides an excellent opportunity to give instructions to new shooters in the safe handling of firearms and the fundamentals of rifle marksmanship. Maybe it won't be long until rifle customers everywhere will just step into the store's rifle range for a few trial shots. Who knows?

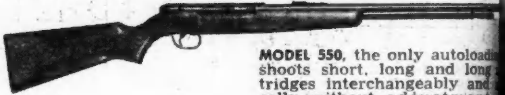
REGIONALS

MORE "PLINKING" FUN THIS SUMME

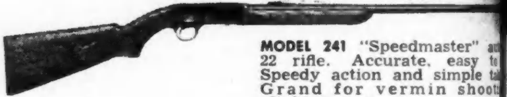
for REMINGTON 22 SHOOTERS



MODEL 513S "Sporter" 22 B
rifle outclasses other 22 caliber
rifles in its price range. Smar
ideal for general use.



MODEL 550, the only autoload
shoots short, long and long
tridges interchangeably and
cally without adjustment
priced.

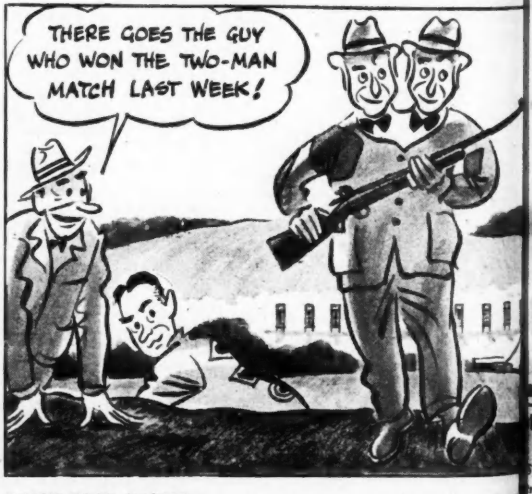


MODEL 241 "Speedmaster" a
22 rifle. Accurate, easy t
Speedy action and simple t
Grand for vermin shoot
plinking.

Plenty of Power

There's no better ammunition, say 22 rifle shooters, than Remington "Hi-Speed." For plinking and small game hunting, they deliver power-aplenty. Their accuracy is known for its consistent excellence. And they have famous Remington "Kleanbore" priming that keeps 22 rifles clean, assures snappy ignition.

Remington
HiSpeed Kleanbo
22 LONG RIFLE
Remington Hi-Speed
KLEANBORE
22 LONG RIFLE
Remington
Hi-Spe
KLEANBORE


THERE GOES THE GUY WHO WON THE TWO-MAN MATCH LAST WEEK!

HERE'S YOUR CHANCE to get your own cartoon idea in
News. Send us your idea, roughly sketched by you
merely explained in words. If we use your idea, you'll
original cartoon, as drawn by the artist.

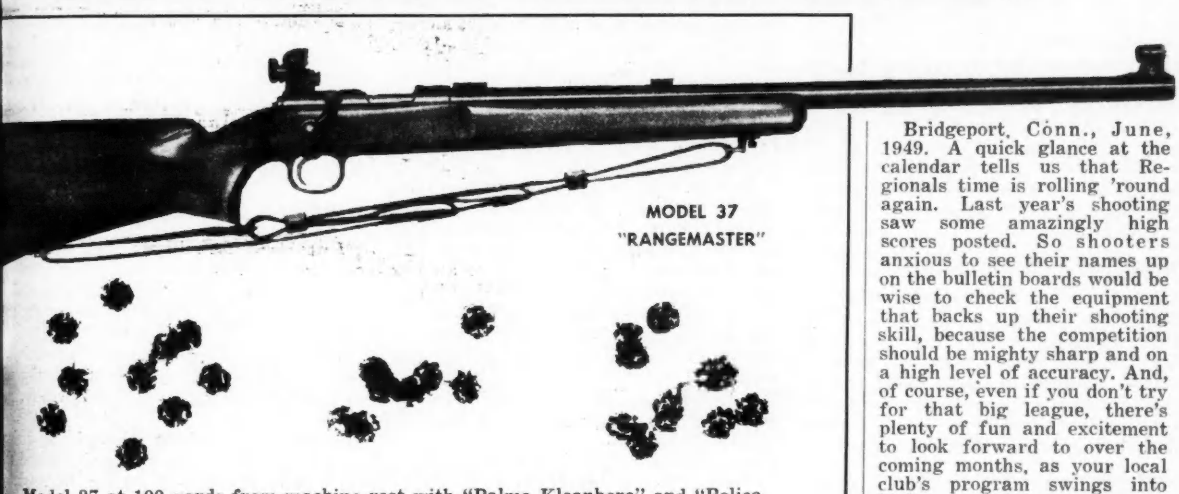
News

WEATHER:
WHY CAN'T IT BE LIKE THIS ALL YEAR?

RIDGEPO UNE, 1949

MISE HOT COMPETITION

SHOOTERS VOICE FAITH in ACCURACY of REMINGTON MODEL 37 "RANGEMASTER" and REMINGTON MATCH AMMO



Model 37 at 100 yards from machine rest with "Palma Kleanbore" and "Police Targetmaster" 22 match ammunition. 10 shot groups—actual size.

REMINGTON 22 HORNET CARTRIDGES GIVE SHOOTERS EXCELLENT SMALL GAME RESULTS

rds - Remington 22 Hornet
t Group - Actual Size

peed," "Kleanbore," "Palma," master," "Speedmaster" and master" are Reg. U. S. Pat. Remington Arms Company, idgeport 2, Conn.

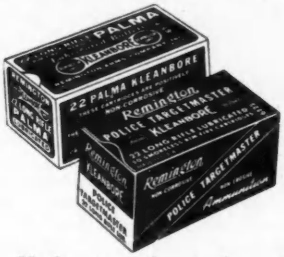
There's not much chance, shooters report, for that woodchuck, crow or prairie dog when you draw a bead shooting Remington 22 Hornet cartridges. The story of their accuracy is well told by this excellent 10 shot 200 yard group. When you line up your sights and squeeze the trigger, this speed-packed 45 grain bullet steps out from your gun muzzle at a full 2650 ft. per second. Available in "Hi-Speed" Soft Point and "Hi-Speed" Mushroom.

While "Rifle News" readers probably think of Remington mostly in terms of match ammunition, just as great pains are put into producing top-flight, powerful small and big game cartridges. The same rigid control in manufacturing and the same careful testing that go into the making of 22 match ammo are carried out in producing Remington's powerful center fire cartridges.

Many shooters say that the new Remington 22 Hornet is the best cartridge of this caliber ever made. Next time you have a chance, look into Remington hunting and "varminting" ammunition. Remember, the proof of any cartridge is in the shooting. So *try* Remington ammo. You won't be disappointed.

Bridgeport, Conn., June, 1949. A quick glance at the calendar tells us that Regionals time is rolling 'round again. Last year's shooting saw some amazingly high scores posted. So shooters anxious to see their names up on the bulletin boards would be wise to check the equipment that backs up their shooting skill, because the competition should be mighty sharp and on a high level of accuracy. And, of course, even if you don't try for that big league, there's plenty of fun and excitement to look forward to over the coming months, as your local club's program swings into high gear. Lots of shootin', lots of fun!

With so much activity ahead, it's no wonder that more and more sportsmen are set to toe the mark this season with a brand new Remington Model 37. Here's a precision-built rifle, especially constructed to breeze through many tough years of shooting . . . to deliver the match accuracy that backs up shooters' skill to the utmost.



Notice, too, the number of match-wise sportsmen shooting Remington "Palma Kleanbore" and "Police Targetmaster." Shooters know that Remington match ammunition is rightly praised for its ability to give the accuracy and consistency match competitors demand.

DOPE BAG

Conducted by Major General J. S. Hatcher

Edwards Brown, Jr.   A. H. Barr   J. S. Rose   M. D. Waite

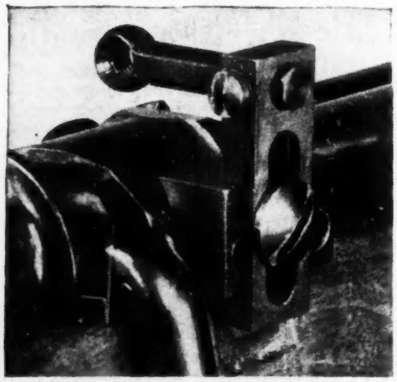
Colt Corrections • Universal Receiver Sight • Streamlined Bullets • Gunsmithing Supplies • German .228 Caliber • M1903 .22-Caliber Gallery Rifle • Rest for Proof Firing • Saturn .224 ICL Marmot • Jap Binoculars • Annealing Cartridge Necks • New Leupold Equipment • Bergmann Mars Model II • Faulty Cartridge Case • Powder Change Eliminates Leading

COLT CORRECTIONS

Your publication of Mr. Anthony's letter on the Single Action Army Revolver, page 57 of the RIFLEMAN for April 1949, included the following statement: "In the year 1947 the Colt Company shipped 534 Single Action Army Revolvers, etc." 1947 should read 1937 and we find the typographical error originated here. We thought that it might escape the eagle eye of your readers but we were over optimistic, for we have been deluged by letters from collectors, dealers, and Peacemaker enthusiasts who have expressed far from mild concern over missing out on those "1947 models." I am wondering if you could call attention to the fact that our reference to the year should have been "1937" and not "1947," reminding your readers once again that we have not shipped any Single Action Army Revolvers since 1941.—COLT MFG. CO.

UNIVERSAL RECEIVER SIGHT

One sight to fit all high-power bolt-action rifles! That is what L. R. McKean, Harris Sales Co., 88-90 East Baltimore Ave., Lansdowne, Pa., has to say about a new $4.95 receiver sight called the Same sight. It was designed originally to be interchangeable on Springfield, Arisaka, Mauser and Enfield rifles, but it has been found that it will fit most others too. The movable horizontal and vertical parts of the sight are reversible and adjustable, and the base can even be fitted to either the left or right side of the rifle receiver. This is a practical and economical receiver sight for hunting rifles. Later a similar model with removable eyecup will be available.—A.H.B.



Unique 'Same' sight fits most bolt-action rifles, on either the left or right side of the receiver

STREAMLINED BULLETS

Has anyone ever experimented with streamlined bullets pointed on both ends?

If you have any information on the subject, I would appreciate hearing about it. Of course, I know about boattail bullets, but has anyone ever gone any farther. It occurs to me that such a bullet would retain its velocity better due to a reduction of turbulence and lessened resistance, but perhaps these are not factors of bullet speeds.

Answer: Yes, streamlined bullets have been experimented with repeatedly. When a long point was used on the rear end of the bullet, results were not good. The accuracy is very poor as the escape of the powder gas past that long pointed rear end tends to upset the bullet and make it fly erratically. Moreover, as you suggest, the streamlining of the rear end does not help at bullet speeds above the velocity of sound, as at these speeds there is a partial vacuum behind the bullet anyway. It is only at speeds below the velocity of sound that boattailing or streamlining of the rear end of the bullet helps.—J.S.H.

GUNSMITHING SUPPLIES

The following selected items which we have tried have been found to be worthy of special mention.

Gun-Tatoo by Hagen Engineering Co., 5211 S. Monitor Ave., Chicago 38, Ill., is a complete kit for putting gun decorations right on the blue surface of firearms, leaving an appearance somewhat similar to a silver inlay. The nice part about the product is that the blued surface of the gun only is etched and any design or pattern can be removed any time by merely polishing and rebluing the gun.

By following instructions, obtaining excellent designs by using Gun-Tatoo with special rubber stamps is a none too complicated process. The surface to be etched is cleaned thoroughly and No. 1 Gun-Tatoo masking solution applied. Next, the stamp with the selected pattern or design is coated with a special imprint solution which actually cuts through the masking film on the steel. The one important thing is to be sure the design is thoroughly outlined through the masking solution. The final step in the process is to swab on the Etch-Oil, which removes the bluing identical to the outline of the rubber stamp. The only tricky part is getting a uniform imprint and for that reason it is advisable to try your skill first on blued samples other than the favorite gun, which would not be harmed but might require rebluing.

The kit retails for $4.50, and the additional stamps, of which there are at least twenty-three different designs, retail at $1.75 each. One of the most interesting is the initial monogram which will be made up using your own initials for $2.50.

Wood chisels and gouges are important gunsmithing items, and some of the best inletting gouges and chisels we have seen are a new line being put out by Z. S. Denman, 423 W. 136th St., Hawthorne, Calif., which are distributed through certain dealers. The chisels and gouges are hand forged of special steel, though there also is a lower priced line made of drill rod. All have been given a thorough test and rough treatment, and they have come through OK. A selected set of about half-dozen patterns to include spoon gouges, chisels and parting tools wi be available before long. The tools are ap proximately 9½-inches overall length wi 4½-inch handles.

Frank Mittermier, 3577 E. Tremont Ave New York 61, N. Y., can now furnish a ver practical set of carving chisels and gouge The tools, made in Germany, seem to hold a edge rather well. They are 7½-inches overa with 4-inch handles, the cutting edges aver aging ¼-inch or more wider and at leas eight different shapes are available.

We find the Mittermier selection a ver practical one. The sets are relatively expen sive now, but they are at least availabl The tools will serve for the final work inletting and carving of gunstocks, b naturally they are too light for rough i letting jobs.

Mittermier can also furnish tap and d sets for special size screws. The square di of the well-known Morse make come in od sizes which include the ¼x22V, ¼x25V a ¼x30V, the correct threads for Mause Springfield and Enfield guard screws. T square dies are in two sections, therefore, a justable for thread depth.—A. H. B.

GERMAN .228 CALIBER

I would like the following information a your judgment on a German commercial a tion with double set-trigger. The barrel 19½ x ⅞ x 9/16, 1 turn in 12 inches, a marked "Febringer 5.6x52R."

Am I right in believing this barrel is f the .228 bullets? Do you know of any that chambers using the .257 Roberts for t .228 bullets?

If I should decide to rebarrel the acti would a barrel of the above size stand t .257? I do not wish to change the stock, it is very nice.—W. C. ROBERTS, Parkersbu W. Va.

Answer: Your Mauser rifle is chambe for the .22 Savage Hi-Power cartridge. fact, you should be able to use Savage f tory loads in it. I would suggest you that, although P. O. Ackley of Trinida Colorado has developed a .228 Ackle Magnum. This would be a rather powerf cartridge for your relatively small barr and I would not expect too much in the w of accuracy. The .228 Ackley-Magnum just a little longer than the .257 Roberts, though Ackley at one time did use the necked down to .228 caliber. I think t barrel could be made slightly larger over t chamber section and still do no harm to t stock you have after relieving it for t larger barrel.—A.H.B.

M1903 .22-CALIBER GALLERY RIFLE

I have a gun that is neither fish nor fo It has a regulation .30-caliber Springf action, no modification except the barre .22 caliber with a chamber that looks enough to hold a .30-'06 case, yet the ba and chamber are so rusty you coul squeeze one in if you had to. The question is could you tell me what the was originally and if it is safe to reba the action to some other cartiridge?—F GRUVER, Salem, Oregon.

Answer: You have one of the old .22-caliber Model 1903 Gallery Rifles used by the Army and National Guard many years ago. The .22-Short cartridges were fired from supplementary chambers made about the same size and shape as the regular .30-caliber cartridge so they would work through the magazine and allow the users to simulate rapid fire.

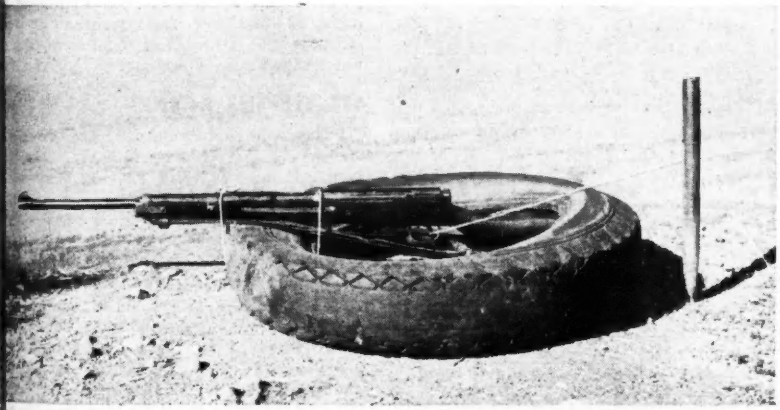
These guns were terribly inaccurate, the main reason being that the .22-caliber Short smokeless cartridges used in those days were so corrosive that no amount of cleaning would keep the barrels from becoming badly pitted and rusted out in no time. That is why the barrel is so rusty.

These were the old single heat-treated actions and moreover, in some cases, actions which were rejected for .30-caliber use. They are not suitable for rebarreling for any modern high-power cartridge, though they could be used for a low-power cartridge, such as the Hornet or the .218 Bee.—J.S.H.

REST FOR PROOF FIRING

I have used the rest pictured below for several years for proof firing. It protects the stock from strain, it is not too slow to use, and it is no expense to make. The stake in back acts as a pulley for the lanyard so that firing can be done from behind a shed or barricade. In testing guns on it or any other rest, at least two standard loads should follow the 'blue pill' load.

If firing is done into an earth bank at close range, set a board against the bank for the bullet to pass through to prevent rocks and dirt from falling back on the rifle. A cloth wrapped around the stock will protect it from scratches.—Leo Heimburger, Heimburger's Custom Loads, Oroville, Calif.



An inexpensive rest for proof firing can be devised using a rubber tire and some heavy cord

ATURN .224 ICL MARMOT

The big-sounding name is a good looking and rather efficient cartridge developed by the Santa Monica Gun & Rod Shop, 2311 ico Blvd., Santa Monica, Calif.

As we have found out, the cartridge is more than a name. According to the makers, enke Brothers, the .224 ICL Marmot is made from a .220 Swift standard case with the neck angle shortened ⅛ inch, sized down to their headspace specifications, and trimmed to approximately 2-⅛ inches. It has an abrupt shoulder angle and wide body and the standard loads are almost but not quite identical to those used in the Swift. It is only one of a series of the ICL cartridges, meaning 'increased capacity load,' and the makers intend to give not only specific loading data but accurate and important drop figures as well, the kind of loading and ballistics information that should be available for every wildcat.

With the .224 ICL Marmot, groups of one-half to three-fourths inch at 100 yards are common. So far our best loads have been using 38 grains of IMR 4895, lot No. 27277, with 50-grain Sierra bullets and 36 to 37 grains of the same powder with 55-grain RCBS and Sierra bullets. Loads seem best with .033-inch Ipco wads. The powder lot number was 4227. The following figures represent only two drop tests with this cartridge:

Load: 50-gr. Sierra, 38.0 grs. #4895, Win. 120 primers

Range (yds.)	*Group (ins.)*	*Horizontal (ins.)*	*Vertical (ins.)*	*Zero*
100	1¼	5/16	¾	on aim
200	2⅝	2⅝	2	⅝" low
300	4⅝	3¼	3⅜	6 15/16" low
400	5	2⅛	4 9/16	15⅝" low
500	7	6¾	4	37⅜" low

Load: 55-gr. Sierra, 36.0 grs. #4895, Win. 120 primers.

Range (yds.)	*Group (ins.)*	*Horizontal (ins.)*	*Vertical (ins.)*	*Zero*
100	1¼	5/16	9/16	on aim
200	2 3/16	2	1¾	1" low
300	3⅜	3¼	1 5/16	6¾" low
400	5 3/16	4⅝	2¼	19½" low
500	6	4 15/16	4⅝	45" low

These accuracy figures may not seem too impressive, but then drop shooting must be a continuous affair, and the horizontal dispersion in many cases would indicate that climatic conditions at all ranges do not help the group size. We have learned that the .224 ICL Marmot cartridge will give much smaller groups in actual group shooting tests.—A.H.B.

JAP BINOCULARS

The 7x50 Neibo, the 8x30 Magna and 6x25 Renox binoculars are being imported into this country from Japan by D. P. Bushnell & Co., 672 South Lafayette Park Place, Los Angeles 5, Calif. The first number in the name indicates the power of the glass and the second number indicates the diameter of the objective lenses in millimeters.

After examination of the binoculars, we consider them excellent buys at the prices at which they are offered. When compared with glasses of known quality, at equal price, the performance of the Jap binoculars was outstanding. Resolution was very good. The binoculars, as is the case with Jap 7x50 types, have considerably more hour glass distortion and curvature of field than the best American-made binoculars, which, however, is not noticeable when putting them to ordinary use. Distortion becomes most apparent when focusing on something like the face of a large building while observing the entire field of view.

Alignment in the Magna was very good but the Renox was badly out of alignment. It is very possible that some of the binoculars, as they come into the country, will be out of alignment, but at the prices offered you could afford to have them aligned and still get a good buy.

The binoculars come in attractive leather carrying cases and weigh, without case, 20 ounces and 15 ounces for the 8x30 and 6x25 respectively. Introductory prices including 20 percent Federal tax, postage and insurance are:

Uncoated—Magna 8x30, $36.00; Renox 6x25, $28.00; Coated—Magna 8x30, $48.00; Renox 6x25, $38.00.—E. B.

ANNEALING CARTRIDGE NECKS

The necks on my K-Hornet cases are so stiff I can hardly size them. How can I anneal them safely? I do not cast bullets so I cannot dip them in molten lead, which is the only method I have heard of.—O. D. Hawley, Denver, Colo.

Answer: Stand the cases in a pan of water so that the necks and about half inch of the top of the body stick out of the water and the rest of the case, including the head, is in the water. Then play the flame of a blowtorch over the necks that stick out of the water, allowing it to rest on each case about one second.

This is the method used at Frankford Arsenal in annealing cartridge necks, except that a gas flame is used instead of a blowtorch flame.—J.S.H.

NEW LEUPOLD EQUIPMENT

Leupold & Stevens Co. has supplemented their line of scopes with three new products, the Adjusto Mount, the Hi-Power Converter, and the Plain Tube 2½-power Rifle Scope.

The Adjusto Mount has two projection-free rings and a one-piece base, the design carrying out the smooth lines of the original Leupold scope. Beryllium copper is the metal from which the mount is cast. A mixture of copper, beryllium and nickel, it is a very hard alloy which is also highly resistant to corrosion.

The base is anchored to the receiver with three hardened screws, two forward and one in the rear on the Model 70 Winchester action. The front ring is attached to a pivoting member by opposing Allen screws. Similar screws on the rear ring function as a windage adjustment. The click adjustment of a larger Allen screw, not shown in the photograph, controls the elevation. The heaviest of the three Allen wrenches provided can be easily engaged with the elevating screw on the underside of the mount base. A small Allen set screw locks the elevation adjustment firmly. Each click in the elevation screw moves the bullet impact approximately one-half inch at 100 yards.

Although the dead black finish of the mount has a satisfactory appearance, the entire job could be improved somewhat if the slight surface irregularities, typical of castings, were polished out. However, the $20.00 mount is good. It is tough, attractive, conducive to precision adjustments, and it held its zero throughout trials. Removal and replacement of a scope did not cause a change of impact even though the rifle was fired with another sight during the interim.

The Leupold Hi-Power Converter is a graceful 6-7/8 inch lens system designed to increase the power of Leupold hunting scopes to eight diameters. Retailing at $24.50, the Converter's coated objective lens is .31-mm. (1-7/32 inch) in diameter and its housing tapers down to a flush fit with the 7/8-inch scope tube. The overall length of scope and attachment is 16-5/8 inch.

Installation of the Converter is simple. It is only necessary to unscrew the standard objective lens retaining ring and objective lens unit, and then substitute a threaded sleeve onto which is screwed the Hi-Power Converter.

The focus scale is concealed under a threaded cap on the objective end. When the instrument is focused for 100-yard shooting, the adjustment is quite satisfactory for general outdoor shooting from 50 yards to infinity. This setting produces no apparent parallax at the short range and less than 1 inch of parallax at 400 yards. When the Converter is used with the 2¼-power scope, it provides a 10 feet 4 inches field of view at 100 yards. Our sample magnified a full eight diameters. Its field is very clear and when checked on a dark rainy day it demonstrated excellent 'light gathering' powers. The eye relief of our 2¼-power scope was only reduced from 13-15/16 inch to 3-3/8 inch, so there is no problem on that score.

The 8-inch overhang of the attachment may be a weak point, but our Converter withstood several moderate blows without changing zero. It is obvious, however, that the device must be protected from heavy pressure or blows if the hunter expects it to be effective.

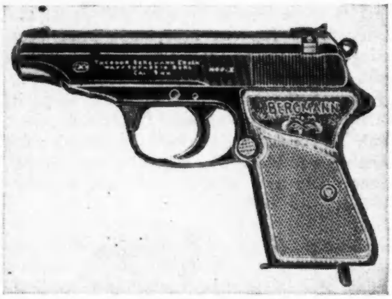
The instrument may be used with either model of the Leupold scopes but we do not believe that it can be used with any other commercial sight. Those which we tried to install it on were equipped with a variety of thread systems, none of which would accept the Converter sleeve insert. It is also unlikely that other optical systems would be compatible with the 8-power attachment.

Pioneer Plain Tube Scope is the full name of the instrument described in the March issue as the 2½-power 'Plain Tube' sight. It retails for $40.00 and makes a fine combination with the other Leupold accessories. The sight contains no internal adjustments. The tube has such clean lines that it may be mounted without even removing the objective lens cap, so don't disassemble the sight unless it is necessary, because it has been filled with nitrogen gas to prevent lens fogging.—J.S.R.

BERGMANN MARS MODEL II

Of interest to identification experts is the Bergmann Mars Model II pictured. It was made by Theodor Bergmann of Suhl, in caliber 7.65 mm. (.32 ACP) and 9 mm. Short (.380 ACP) just previous to the war. A limited quantity of these pistols were made in competition with the Walther Models PP and PPK and they are very scarce both here and abroad.

The one unusual feature of the Mars Model II is that the exposed hammer is cocked the first time the trigger is pulled and second pressure on the trigger causes the hammer to fall, firing the weapon.



Bergmann Mars Model II

There is also a Bergmann Special which is almost identical to the Mars.—Fred A. Datig, Jr., Beverly Hills, Calif.

FAULTY CARTRIDGE CASE

When fired recently a Frankford Arsenal 1933 case split longitudinally forward from the head for a distance of about ½ inch. The cartridge was fired in a postwar Model 70 Winchester which was restocked and headspace presumably rechecked by Griffin & Howe.

Several hundred rounds of mixed stuff have been fired in the rifle with normal results, and about 500 rounds of F.A. '33 cartridges of the same lot have been fired by my friends with no outward results. Is there any apparent reason for the splitting of this case, other than the old age of the brass?—H. Nelson Busick, Baltimore, Md.

Answer: It is known F.A. ammunition of certain lots was subject to this kind of failure. The trouble cannot be charged to the rifle, although I cannot be sure about the headspace. The trouble is not aged brass but merely a faulty lot of brass—either of improper anneal or something else. Usually this trouble occurs only in certain lots of ammunition. Another ammunition subject to the same trouble was the F.A. 1932 Match of which we fired one full case and had five go the same way. We, of course, knew about this lot and used shooting glasses, and I would advise you or your friends to do likewise when using the F.A. '33. It may or may not happen again, but some ammo made in 1933 was noted for failure. I have never heard of a damaged rifle when a split occurred and I can recall having it happen at least seven times myself in different guns. There has never been any damage to the rifle. The shooter's face, however, can be cut seriously, with severe damage to the eyes, unless shooting glasses are worn.

As an example of how unpredictable this type of failure can be, I personally fired two cases of F.A. '29 ammunition which was selected, because of very fine accuracy, and used for test purposes. It has been fired in dozens of different .30-'06 rifles and the brass had been saved for reforming to other wildcat cartridges because it seemed so good. Then out of the remaining bandoleer I selected ammo for my youngster to shoot, as it was his first experience with the .30-'0 He fired six shots. On the sixth shot t case split lengthwise through the head, b fortunately he was not hurt. This shooti was done with a closely-headspaced M —A. H. B.

POWDER CHANGE ELIMINATES LEADING

While I have been reloading for about years, I recently had a 'first time' to exper ence the elimination of leading by changin powders.

For years my favorite target load in th .38 Special was 2.5 grains Bullseye and th 148-grain Bond J358610 wadcutter. I coul count on 1-inch to 1¼-inch groups from th machine rest at 25 yards.

Some years back I went wild on bulle making one winter and ran off about 350 all of which I knew were on the soft sid since I could not obtain any tin at the tim Slight to moderate leading was found o casionally in the throat of the barrel a chambers when using these bullets, but a curacy was not seriously impaired for pra tice since I made frequent use of a bra brush.

My supply of Bullseye being exhauste recently, I asked a friend going to th states for leave to bring me some more upo return. He brought me pistol powder but i was DuPont No. 6 since he could find n Bullseye. Using the same bullets, primer cases and changing the load to 2.8 grai of No. 6, I found that leading, for all prac tical purposes, had disappeared.

Has anyone ever noted such an occurren in his loading and if so, to what does i attribute the absence of leading?—Maj Ellis Lea, Berlin, Germany.

417 STEVENS HORNET

I have the opportunity of purchasing Stevens Walnut Hill No. 417 rifle that h been rechambered from .22 long rifle to Hornet. However, I have heard it said th this action will loosen up under the pressu of the Hornet.

Will you kindly let me know if this g would be satisfactory as a Hornet? If s would it be safe to rechamber the rifle either K-Hornet or Improved Zipper?—F. A. Hopper, Lincoln Park, New Jersey.

Answer: It is true that the Stevens facto discontinued the .22 Hornet in the 417 mod because the action would not stand up to th high-velocity Hornet loads; the breech blo or pins holding the breech block would wea and set back causing excessive headspac thus pulling the cartridge cases in two fo ward of the rim. The rifle would be acc rate when properly headspaced, but hea spacing will not hold unless special harden pins are installed and the action more less completely reworked to stand the high pressure. I personally would not consider t 417 in .22 Hornet caliber a very good i vestment. Under no conditions would I co sider rechambering a 417 Stevens for K-Hornet or Improved Zipper.—A.H.B.

MAGAZINE LOADING BUTTON

I have read a lot about magazine load buttons for automatic pistols. Take round cap off a tube of shaving cream, cl it out, clap it on the present magazine b ton and there you are. No tools are nec sary and there is no cost.—Carl R. Riec man, Oakland, California.

BERNADELLI SHOTGUNS

The Bernadelli is another make (besides Beretta) of Italian shotguns that shows quality workmanship. These guns with various grades of engraving are available through Firearms International, Inc., 1526 Connecticut Ave., N. W., Washington, D. C.

A Bernadelli side-by-side double, in 12 gauge, was given a good trial at hand-thrown traps and used for quail shooting. The gun balances well, is relatively light, and it was classified, even by a 28-gauge fan, as being about as nice handling a 12 gauge as he had used. There is plenty of engraving on the better grades, such as the Roma No. 6 listing at $286.00 with nonautomatic ejectors. Lowest price for the S. Uberto No. 1 with some scroll and line engraving is $208.60. It is available in 12 gauge only.

The following 40-yard patterns are quite uniform, although some of the loads did not give full-choke patterns, even through the barrels apparently have enough choke constriction to be full-choke.

40-Yard Patterns (Pellets in 30-inch Circle)

Right Barrel	*Left Barrel*
Winchester Ranger Super Trap	
(3—1⅛—7½; 388 Pellets)	
1—262	1—271
2—263	2—276
3—*287*	3—*265*
Av: 271—69.84%	Av: 271—69.84%
Remington Express Long Range	
(3¾—1¼—6; 279 Pellets)	
1—180	1—165
2—165	2—203
3—*191*	3—*162*
Av: 179—64.15%	Av: 177—63.44%
Peters High Velocity	
(3¾—1¼—4; 170 Pellets)	
1—102	1—101
2—107	2—120
3—*97*	3—*109*
Av: 102—60%	Av: 110—64.7%

The specifications for the Bernadelli submitted for test are:

Weight	6 pounds, 7 ounces
Over-all length	44 inches
Barrels	27½ inches
Butt to trigger front	14¼ inches
Drop at comb	1⅜ inches
Drop at butt	2¼ inches
Angle or muzzle pitch down	2½ inches
Right barrel bore	18.3 mm. (.720 inch)
Choke	17.5 mm. (.689 inch)
Left barrel bore	18.3 mm. (.720 inch)
Choke	17.1 mm. (.673 inch)
Chambers	20.3 mm. (.799 inch) 70 mm. (2¾ inch)

To us, also, the Bernadelli seems about the nicest handling 12 gauge we have used.—A.H.B.

NEW STEVENS BOLT ACTION RIFLE

The J. Stevens Arms Company, Division of the Savage Arms Corp., has sent us the pilot model of their new five-shot bolt-action rifle chambered for the popular .22 Hornet cartridge. Designated as model 322, it appears to be a twin brother to the .30-30 model 325 placed on the market in 1947.

Model 322 is a compact little 6¾-pound rifle with 21-inch round barrel and over-all length of 40 inches. The action is the short bolt throw type, vented for gas escape. The bolt, equipped with flat Mannlicher-type handle, has one locking lug at the forward end with the root of the bolt handle serving as an auxiliary safety lug. The removable box-type magazine holds four cartridges in addition to the round in the chamber, giving the rifle five-shot capacity.

The crisp trigger pull coupled with the short .33-inch striker fall is a far cry from some of the miserable trigger mechanisms we have struggled with. When engaged, the convenient thumb-operated safety, located on the right rear end of the receiver, locks both sear and bolt assembly. Savage indicates that they will supply this model with either open sporting sights or with the Savage No. 175 Micro Peep rear sight.s At the present time, the standard open sight model is retailing at $42.95 in the Washington area.

Test firing with the rifle was accomplished from rest position at 100 yards, using a 4-power hunting scope. We had no difficulty in obtaining 1½-inch five-shot groups at this range, with several four-shot groups measuring less than ¾ inch. With some bedding adjustment we believe the rifle to be capable of 1½-inch groups or less at 100 yards.—M.D.W.

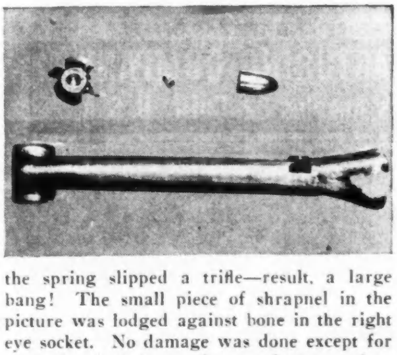
NEAT TRICK FOR POWDER WEIGHING

One way to remove one or two individual grains of powder from a balance pan without disturbing the balance, is to take a needle and wet it with the tongue. The wet point will pick up any number of individual grains that the handloader may desire.—Theodore Slater, Castle Gate, Utah.

NEAR TRAGEDY IN LOADING LUGER

The photo tells more clearly than words of an accident that was nearly tragic.

In loading a Luger clip with an exceedingly stiff spring, which was being held down to the depth of several cartridges, one cartridge evidently cocked up and the succeeding bullet was just being entered when the spring slipped a trifle—result, a large bang! The small piece of shrapnel in the picture was lodged against bone in the right eye socket. No damage was done except for a couple of stitches and an anti-tetanus shot, also a beautiful black eye.—Gerald R. Trudeau, Jr., Toledo, Ohio.



UNERTL 6-POWER CONDOR SCOPE

To complete his line of hunting-type scopes having internal adjustment for both windage and elevation, John Unertl has brought out the 6X Condor. An accurate check indicates that the power is more nearly 5.55 than 6. It is an excellent scope, however. Like the 2¾-power Falcon and 4-power Hawk, the tube is light dural which will not take as much rough treatment as a heavy steel tube will. There is no complaint to make though against the coated optical qualities or the non-click internal adjustments.

The scope tubes are now filled with dry nitrogen gas to absorb moisture and to avoid fogged lenses. To retain the gas inside the scope, Unertl says he will gladly install mount rings during assembly, providing they are furnished by the customer.

The Condor would be an ideal type of scope for use on the bull-pup type of rifle where a short scope is necessary. It would, along with a 2¾-power Falcon, make an excellent all-around combination for use in something like the Stith Master Mount on a varmint and big-game rifle in such calibers as a .270 Winchester, .30-'06 or .257 Roberts. Both scopes could be zeroed in on the one rifle, then changed in a matter of seconds, still maintaining a constant zero.

Specifications for the Condor Scope are:

Weight	8.6 ounces
Length	13⅜ inches
Tube diameter	1 inch
Objective diameter	1.65 inches
Ocular diameter	1.40 inches
Objective clear aperture	37.5 mm.
Exit pupil diameter	7.5 mm.
Eye relief	4⅛ inches
Magnification	5.55
Field of view (100 yards)	16 feet, 8 inches

The Condor is certainly a lot of scope for $66.00. A six-power scope is a good compromise for varmint and long-range big-game hunting.—A.H.B.

CHAMBER DIMENSIONS

Is it possible to use cases which have been fired in a Model 1903 Springfield, in a Model 1917 Enfield?

I am thinking of reloading my own ammunition and I find that the cases fired in my 1903 Springfield will not fit properly in my Enfield chamber. Considerable force is required to open or close the bolt with this combination. The headspace has been checked and found OK on both guns.

Is there supposed to be a difference in the chamber diameters of these guns, or do I have a faulty rifle?—D. Fusillo, Utica, New York.

Answer: Yes, it is possible to use a Model 1917 Enfield with empty .30-'06 cases from the Model 1903 Springfield rifle or from any other .30-'06 chamber. Your problem is brought about by the fact that the dimensions of even the best machined chambers vary between maximum and minimum tolerances. If the diameter of your Springfield chamber happens to be near the maximum allowable figure and the diameter of your Enfield happens to be less than that, or near the minimum allowable figure, the 'fire-formed' or expanded cases from the Springfield will not be accepted easily by the smaller Enfield chamber.

Handloaders overcome the problem of expanded or oversize cases by reducing the empty case dimensions in a full-length resizing dye or by using only one gun with a given batch of cases.—J.S.R.

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★ Eye-free focusing ring
★ Long eye-relief
★ All optics coated
★ Weather and moisture proof

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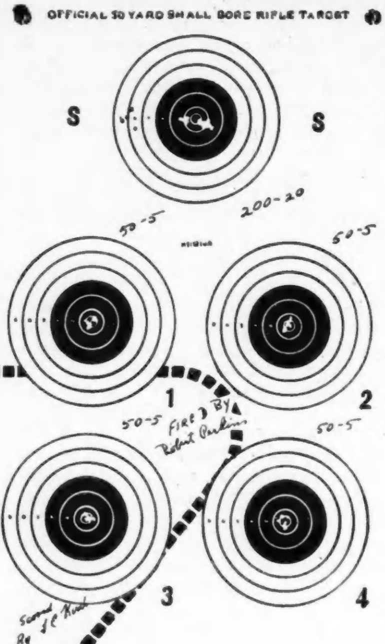
30X
25X
20X
15X

Scope may be purchased with any power eyepiece. Extra eyepieces may be purchased separately.



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GUNSMITH TRADE DOPE

Kipps & King Sportsmens' Supplies, 1482 N 52nd St., Philadelphia 31, Penna., has developed one of the most comfortable rif shooting slings which we have tried for som time. It consists of an arm-fitting cowhid leather cuff with an inner layer of 'feather foam' Latex, which is in turn covered by fine, soft kid leather. The inner Latex rubbe does an excellent job of helping eliminat annoying pulsation when using a tight sling All who have used the sling so far have endorsed it enthusiastically. It is priced at $3.75 or complete with a $1.50 short leather sling for $5.00.

☆ ☆ ☆

R. A. Litschert, Winchester, Indiana, th scope maker, has now made some changes i his popular medium-priced Spot Shot scope The front end has been streamlined an made more nearly waterproof, and it i equipped with the latest mounts which hav more positive click adjustments and loo much better. Streamlined throughout an listing at just under $50 complete, the Spo Shot is available in 10, 12, 15 and 20 power Using one regularly on our test rifles, we find it very practical indeed. It is considered one of the better scope values.

☆ ☆ ☆

Rochester Lead Works, Inc., 380 Exchange St Rochester, N. Y., having been successful wit their lead wire for bulletmaking, have a regular bullet casting alloy available now. Th maximum amount of tin allowed by government regulations is included with two an one-half percent antimony in the alloy, whic compares favorably with the old favorite o two parts tin, two parts antimony and 9 parts lead. We found the alloy very practical for most all bullets. The alloy will b available in minimum of 25-pound lots a 32¢ per pound, with a noticeable reductio up to 200 pounds or over at 25¢ per pound The alloy, which casts very well, is made i small two-inch square ingots weighing abou one and one-half pounds each. They can b used in most of the small electric meltin furnaces, such as the Potter.

☆ ☆ ☆

Sheridan Products, Inc., Racine, Wis., makes one of the most convenient bullet traps w have seen. Of relatively light-gauge meta and weighing only seven pounds, it naturally is intended for use with pneumatic guns only The trap measures only 7x9½x4 inches an a hinged door in front of it opens conveniently for placing the special Sheridan indoo target in place. Hundreds of shots in ou 25-foot indoor range indicate no back splatter condition, but the pellets are well flattened upon impact with the backstop. Th convenience of the entire outfit, which includes a Sheridan Super-Grade or sportin rifle, plus the targets and backstop and gun case, makes the combination convenie but relatively expensive. All are excelle quality, as apparently are all Sherida products.

☆ ☆ ☆

Herter's, Waseca, Minn., can now furnish completely inletted and finished practic sporting-type gunstock for Enfield, Springfield and Mauser rifles or conversion thereo Not a factory-production run stock but o hand inletted for best accuracy, it is a standard hunting-type stock, designed for use wi open or peep sights.

The sample stock we have seen for the Enfield is an excellent full-proportioned sporting-type stock, having a full, rather long forearm and a comfortably proportioned grip section with small, practical cheekpiece. Fittings are regular plastic grip cap and buttplate minus the fore-end tip. The standard retail price is $24.50 and it seems like an excellent buy for the money. Inletting of the sample which we have seen was exceptionally well done.

☆ ☆ ☆

P. O. Ackley & R. E. Hightower of Trinidad, Colorado, have developed a series of new cartridges based on resizing and reforming the .30-'06 case to have a headspacing belt somewhat similar to the .300 H&H Magnum and other cases of the type. The cases must be swaged down accurately in special forming dies, but they can be had for various and interesting wildcat calibers. By controlling the case-forming and chambering, extremely close headspacing is possible, which is necessary with some of the high-pressure cartridges and loads used.

According to Mr. Hightower, the advantage of belting the .30-'06 cases is to reduce the diameter, thus producing a case of powder capacity desired. Actually, Hightower and Ackley believe the case is strengthened somewhat in addition to insure easy extraction. Furthermore, the case is long enough so that it can be revamped and still hold plenty of powder for the various calibers, which include a .22 of .22-250 length, a .228 measuring 2.3-inches long, a .240 left full length or measuring 2.54 inches when reduced down with an extremely long neck, and a full-length .25 caliber. All cases appear to have the typical 28 to 30 degree Ackley shoulder and have relatively long case necks, which is believed to insure longer barrel life. These new interesting cartridges are worth watching for further developments.

☆ ☆ ☆

Wisconsin Historical Society has reprinted "The Gunmaking Industry in Wisconsin" by Jerald T. Teesdale. First published in the Wisconsin Magazine of History, the article covers the gunmaking industry from about 1840 until today, discussing such artisans as John Meunier and the accomplishments of James Paris Lee. Reprints of the article are available from Mr. Teesdale, 3102 Oxford Road, Shorewood Hills, Madison, Wisconsin, for fifty cents each.

☆ ☆ ☆

Tom Samworth, who publishes books under the Small-Arms Technical Publishing Co. imprint, is planning to publish (in unexpurgated form) the famous letters of Alvin Linden, the Wisconsin stockmaker who wrote masterpieces of plain prose so amusingly and so frequently to his many friends. Samworth has a two-foot stack of Linden's letters but he asks that any persons who have received (and cherished) letters from Linden mail them to Thomas G. Samworth, Box 508, Georgetown, South Carolina, for possible publication in book form. All letters will be returned to their owners.

☆ ☆ ☆

J. H. Knecht, gunsmith, formerly of Rt. 2, Box 445, Los Altos, California, has changed the name and the location of his business. It is now known as the Bayshore Gun Works located opposite Moffet Field, Mountain View, California.

☆ ☆ ☆

Niedner Rifle Corporation has changed its address from Dowagiac, Michigan to R-5, Niles, Michigan.

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for an all-purpose scope

MODEL K2.5 SCOPE
(shown with Weaver Detachable Top Mount)

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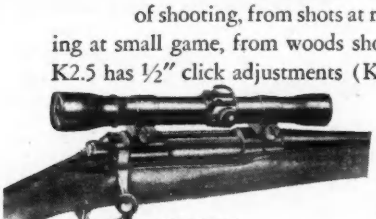
K2.5 . . $37.50

THE K2.5 SCOPE is suited for almost every kind of shooting, from shots at running large game to precision shooting at small game, from woods shooting to cross-canyon shooting. The K2.5 has ½" click adjustments (K4 and K6, ¼") of target scope precision and guaranteed accuracy. See the K2.5 at your dealer's.



Model K4
WEAVER-SCOPE $45.00
(shown with Weaver Detachable Top Mount)

WEAVER Detachable Mounts,
Top or Side, $9.75

Other WEAVER-SCOPES:
K6 $48.50
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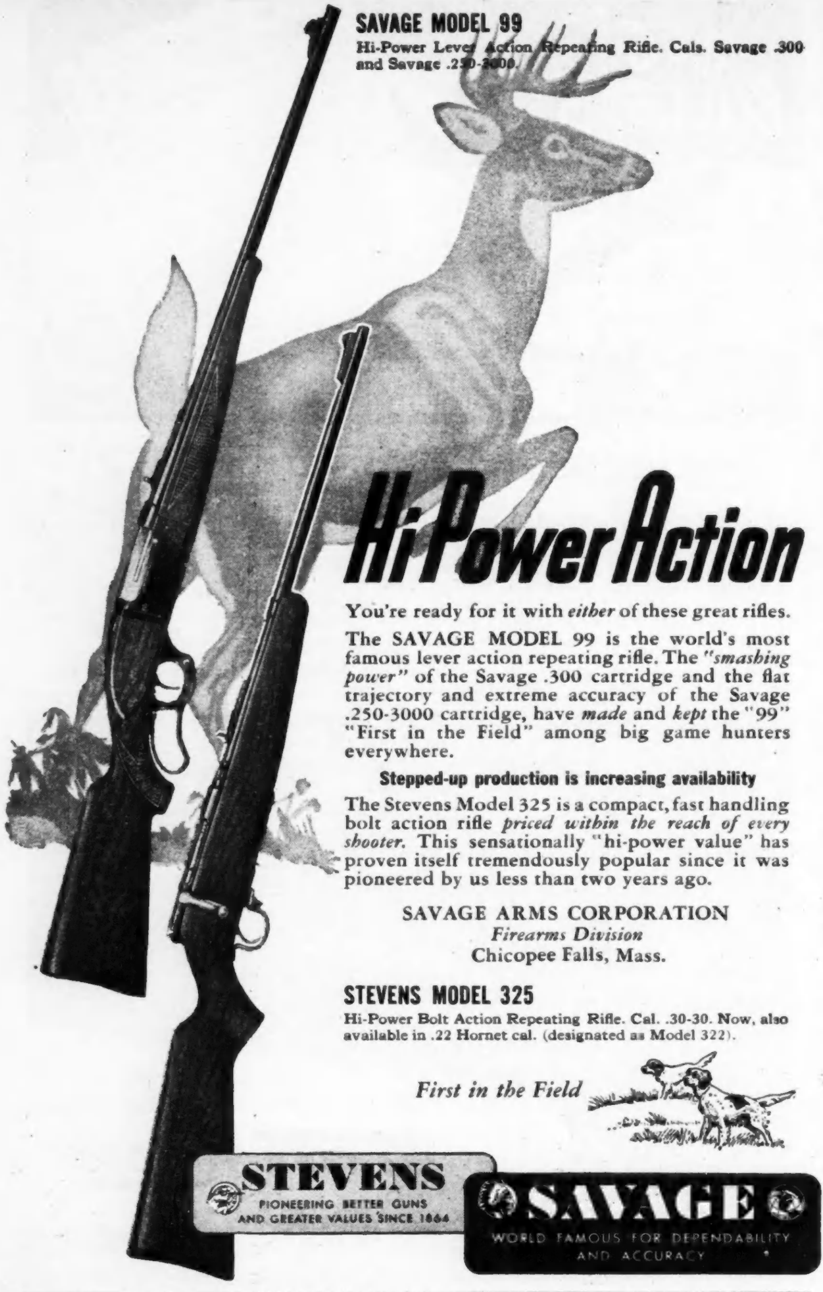

SAVAGE MODEL 99
Hi-Power Lever Action Repeating Rifle. Cals. Savage .300 and Savage .250-3000.

Hi-Power Action

You're ready for it with *either* of these great rifles.

The SAVAGE MODEL 99 is the world's most famous lever action repeating rifle. The *"smashing power"* of the Savage .300 cartridge and the flat trajectory and extreme accuracy of the Savage .250-3000 cartridge, have *made* and *kept* the "99" "First in the Field" among big game hunters everywhere.

Stepped-up production is increasing availability

The Stevens Model 325 is a compact, fast handling bolt action rifle *priced within the reach of every shooter.* This sensationally "hi-power value" has proven itself tremendously popular since it was pioneered by us less than two years ago.

SAVAGE ARMS CORPORATION
Firearms Division
Chicopee Falls, Mass.

STEVENS MODEL 325
Hi-Power Bolt Action Repeating Rifle. Cal. .30-30. Now, also available in .22 Hornet cal. (designated as Model 322).

First in the Field

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PIONEERING BETTER GUNS AND GREATER VALUES SINCE 1864

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POSITIVE ZERO MOUNT
Dependable, sturdy, will not shoot loose. For most Rifles $15.00. For Challenger Scope $17.50. Extra bases $6.50.

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Adjustable, light pull, no creep. Mauser, Springfield, Enfield, Rem. M-30 and 720. $15.00.

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SLING-EZE ARM CUFF

The SLING-EZE Arm Cuff has been accepted by America's shooters and takes its place along with the finest shooting equipment. There is no limit to the guarantee. If it is not the most trouble free, most comfortable and most beautiful arm cuff you have ever used, and if it does not give you greater relaxation and improve your scores, your money will be refunded without any questions asked.

Standard Arm Cuff $3.50, Brass Trimmed $3.75, Genuine Hand Tooled $7.00. Sling $3.00, Hand Tooled $5.50. Sold through leading jobbers and dealers, or direct.

B. L. MYERS
5934 MISTLETOE
DALLAS, TEXAS

NEW PRODUCT

New receiver sight designed primarily hunting rifles is being produced by Willia Gun Shop, Inc., 7387 Lapeer Road, Davis Michigan. The sight is made with minim projections of screws and knobs. Adju ments to the sight are made in positive cli with a screwdriver and the adjustme screws can be locked by smaller screws tering from the side. The Williams refer the sight as the 'Foolproof' since with it on gun you can hand your rifle to a friend wi out the fear that he will grab a handful windage or elevation and nullify all sigh ing-in efforts.

The top extension carrying the peep is solid milled piece permitting the use of supporting screw at the free end. The upp bracket fits into a dovetail in the side of t base. Looseness in the dovetail is taken by a gib locked bushing. The sight is ve light, being made of a light alloy which t producer claims has a tensile strength of percent greater than mild steel. Willia is manfacturing several models at the prese time, retail price of which are $9.00.

☆ ☆ ☆

Trigger shoe and stop are being made in unit which fit Hi-Standard and Colt se automatics, both .22 and .45, by A. T. Gra 2311 Humboldt Avenue, Oakland 1, Ca fornia. The stop is an Allen set screw, justable to provide a stop at the appropri point, in one side of the shoe which fits o a trigger in usual fashion. The one we ha is for the .45-caliber automatic and will all but the ones with the short trigger. Th are exceptionally well-made and finished.

☆ ☆ ☆

.45 auto thumb rest being produced by Ral B. Larsen, 4009 E. Smith Ave., Albuquerq N. M., is neatly made of cast aluminum a is attached over the grip by the top st screw on the left-hand side. Mr. Larsen w the Rocky Mountain Pistol Regional at De ver in 1948 using his design of thumb re Retail price of thumb rest is $1.50.

☆ ☆ ☆

Auxiliary peep sight, called the 'Little Bl Peep', for the Buehler or Redfield mounts c be quickly put on and clamped in by the re right mount screw with the scope remove The sight can then be sighted-in for winda and elevation, moved and carried in t pocket ready for use as sighted-in. Model is for Buehler mounts and Model R for Re field. The manufacturer, Maynard P. Bue ler, 697 Vernon Street, Oakland 10, Ca fornia, is selling the Little Blue Peeps $3.35 postpaid.

☆ ☆ ☆

Magnifying scoring gauge with a bul shaped plug and scoring flange mounted the center of the flat face of a piece of cl plastic 1¼ inches in diameter was desig and is being produced by the Rig Produ Co., Oregon 25, Illinois. The upper cur face of the clear plastic provides the m nification (approximately 1½ times). have had reports from individuals who h done a lot of scoring with them and th comments are very favorable. The ga has been accepted as official for use at N registered tournaments. Retail price of magnifying scoring gauge is $2.00.

(Continued on page 58)

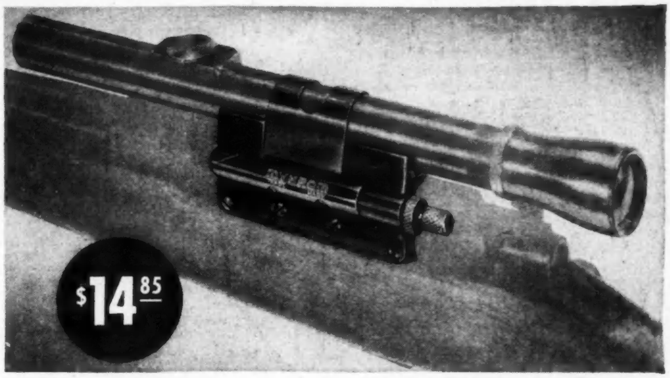
The entirely *new*

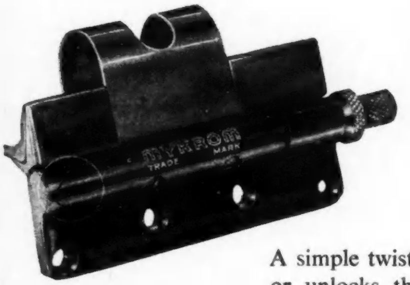
MYKROM

TELESCOPE MOUNT

The MYKROM Mount is *the* quick-detachable telescope mount, instantly replaceable at absolute zero—with micrometer accuracy.

A group of machine tool engineers, who have hunted together for years, were dissatisfied with existing detachable mounts. So they developed for themselves *and now for you* an entirely new mount—one that *really* returns a telescope to perfect zero setting accurately, simply and instantly.





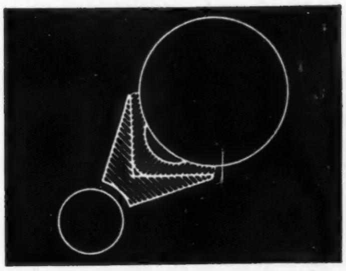
One twist, and *Inter-Plane Lock* (circled above) replaces scope at zero setting—instantly and accurately. Open sights are usable with scope removed.

INTER-PLANE LOCK . . .

A New Aligning Principle

The two parts of the MYKROM Mount are precisely aligned by the patented *Inter-Plane Lock*, a revolutionary new principle of automatically aligning two objects with micrometer accuracy. No calculations or tools are necessary. A simple twist of the locking cylinder (the one moving part) locks or unlocks the MYKROM Mount. Thousands of tests have proved that there is no measurable variation in alignment when replacing the telescope.

ACCURATE



Scope always centered directly over the bore. Cross-hair center undisturbed in zeroing-in. Mount holds scope as low as bolt permits.

RIGHT ANGLE MOUNTING

Lightweight inserts cradle the telescope in the right angle blocks. The telescope is easily zeroed-in without disturbing the internal elevation and windage adjustments. Will mount any standard hunting telescope on the Winchester 54 or 70, Remington 30, 720, 721 or 722, Enfield and Springfield.

SIMPLE

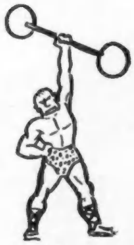
MYKROM Mount available at leading stores and gunsmiths . . .

Or send check or money order to the Mykrom Co., 1337 S.W. Morrison St., Portland 5, Ore.

Write today for free specification sheet and illustrated circular.

STEEL FORGINGS

Drop forged of S.A.E. 1020 steel, with a tensile factor of 70,000 pounds per square inch. All parts possess the highest structural and impact strength. Finished to match the finest rifles. Weighs less than 6 ounces.

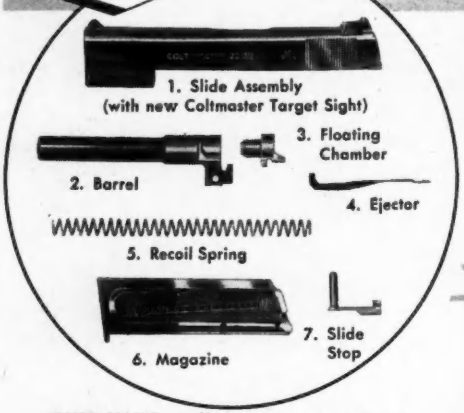


STRONG

MYKROM TELESCOPE MOUNT

T. M. REG. U. S. PAT. OFF.

Your Colt
Government Model "45"...
PLUS this Colt .22 Conversion Unit . . .



Give you more good shooting fun for a lot less money!

THIS UNIT really gives you two guns in one by simply changing the Unit parts with those of your .45 or Super .38. No tools, no trouble. If you own a .45 or a Super .38 Colt Automatic Pistol here's a real opportunity to convert to the economical caliber .22 Long Rifle cartridge! Order today through your local dealer.

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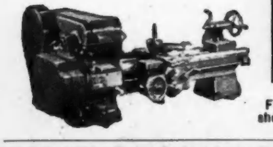
for the Expert Gunsmith!

The SHELDON TS56B is built not only to do all ordinary gunsmiths work easily, but it also has the extra precision (Zero Precision Taper Roller Bearings—bed held to .0005" alignment, etc.) and capacity for the special jobs trusted only to the expert. That is why you will find SHELDON lathes the newest in the finest gun shop—the choice of the nationally recognized experts.



For the smaller shop, take an L-44

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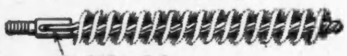
Insist on Gunslick Brushes from your dealer



OUTERS LABORATORIES, INC.
Dept. AR-6 ONALASKA, WISCONSIN

(Continued from page 56)

Little "Imp", a unique little scope and mount produced by R. Noske, 760 El Camino Real, San Carlos, California, is much improved in appearance from the first model we saw a couple of years ago. The scope is a prismatic, which accounts for its being only 2¾ inches long and adjustments for windage and elevation are built into the mount. The Imp has a magnification of 2½ power, a field of view of 21 feet at 100 yards, and a long eye relief of from 8 to 10 inches. Long eye relief permits mounting well forward on the action.

The eye lens can be mounted low but the line of sight will be high, since the objective lens is in a higher position than the ocular. In adapting the Imp to various rifles, Noske is specializing on the Winchester lever action, the Remington autoloading model 81 and the .22-caliber rifles. Retail price of the Imp is $40.00.

☆ ☆ ☆

Mikron 6x15, a small Japanese binocular, being imported by W. Allen Rhode & Company, Box 3224, Catonsville 28, Md., at the attractive price of $39.95 coated and $29.95 uncoated (add 20 percent excise tax to both prices), is very good but optically not up to the Sard (September 1948, page 61) or the Telita (December 1948, page 71) as it has the characteristic distortion and curvature of field found in the Jap glasses. Distortion and curvature, however, is not noticed unless the user is looking at a large surface and taking in most of the field. Resolution is good, which is most important. The field of view of the Mikron is approximately 43 feet at 100 yards. The binocular is individual focus which, by some, may be considered a disadvantage in comparison with the Sard or Telita, and is slower to use than central focus. The Mikron is made up with porro prisms and the job is very attractively done. A soft leather carrying case with zipper opening comes with the binocular.

☆ ☆ ☆

Gametarg by E. Wayne Williams, 50 East 42nd St., New York 17, N. Y., is a new gallery game target which can prove quite interesting. Printed on 6x9¼-inch buff tagboard, the silhouette or scoring areas for deer, coyote, woodchuck, squirrel and crow present a reduced target for use at basement ranges of 25 feet. There are three silhouettes on each target, representing the equivalent of what could be scored a killing shot on these animals, but at indoor ranges. One example is the deer target with scoring areas representing a 75-yard hit at the 25-foot range, a 100-yard hit at the short range and a 200-yard hit. Suggestions for competitive matches are printed on the tagboard. They are very interesting targets and should become quite popular.

When shooting in the offhand position no possible scores have been made yet.

☆ ☆ ☆

Gunner's Guide, a magnetic compass installed in the top of your buttstock, is a very simple instrument to use. While aiming the rifle in the direction in which you intend to hunt, adjust the serrated revolving rim of the Gunner's Guide until the white dot indicator is over the blue end of the compass needle. If you have proceeded on the intended course and are ready to come home,

(Continued on page 60)

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Yours now!

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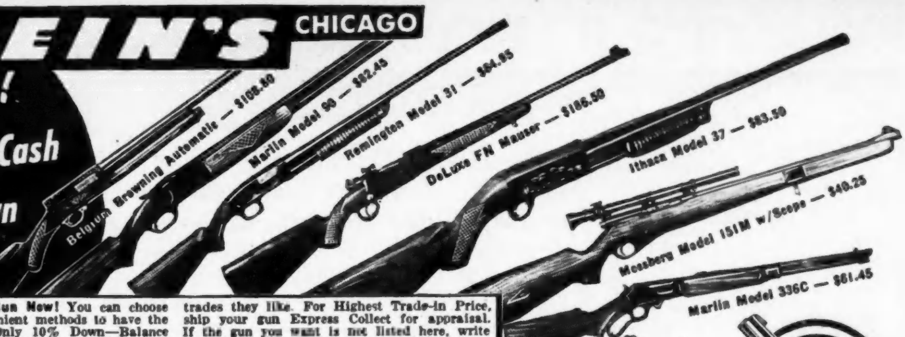
3. Only 10% Down
4. Trade



Belgium Browning Automatic — $108.80
Marlin Model 90 — $82.45
Remington Model 31 — $84.95
DeLuxe FN Mauser — $186.50
Ithaca Model 37 — $83.50
Mossberg Model 151M w/Scope — $40.25
Marlin Model 336C — $61.45

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Ithaca Model 37 Pump, All Gauges	$ 83.50
Ithaca 37R Pump, Rib, All Gauges	$ 98.50
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Winchester 52 H.B., 22 cal., Target Sights	$119.50
Remington 521TL, Bolt Action, 22 Target	$ 36.95
Remington 550 Peep Sight Auto, 22 cal.	$ 36.95
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S&W K38 or K32 Target, 6" Bbl., Rib	$ 65.00
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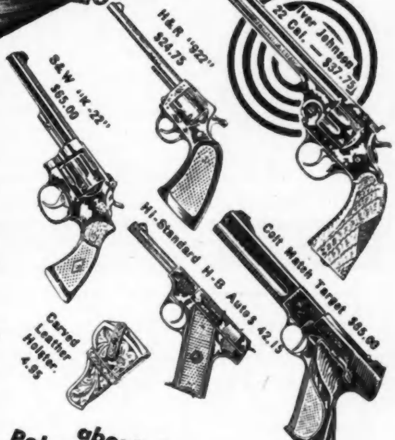

S&W "K-22" $65.00
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South Bend Model 59 Split Bamboo Fly Rod, choice of 7½, 8½ or 9 ft. length, with extra tip and case, **PLUS** Shakespeare Model 1837 Automatic Fly Reel, free stripping, silent wind, capacity 80 yds. "G" line.
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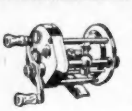

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4720—Rod and Reel, only **$4.89**

$35 Spinning Outfit $24.95

Famous Airex Bache-Brown "Spinster" Reel and fine "Lucerne" 7 ft. 2-pc. split bamboo Spinning Rod, Ash-away Line and 4 Airex Lures included. A Special Value! All 7 pieces only $24.95.
4717—$2.50 Down—or CASH **$24.95**

Klein's Leads Again!

Husqvarna Swedish Sporting Rifle

The Husqvarna, famous since 1689, is now available at Klein's. 5-shot Mauser type action, round tapered Swedish Special steel barrel, 24" length. Beautiful walnut stock, finely checkered. Weight 8 lbs. 3 oz. Choice of 270 or 30-06 caliber.
2164—$13.00 Down—or CASH **$129.95**

Only $13.00 Down

Save on Famous Wilson "Sam Snead Championship" Golf Clubs.

Every club matched in head and shaft weight, loft, lie, length and feel for a better game of golf. Chrome plated True Temper tubular steel shafts. Reminder grips. Fiber insert on 3 Woods Nos. 1, 2, and 3. 6 Irons Nos. 2, 3, 5, 7, 8 and putter.
7247-3—3 Matched Woods. List $36.00, now **$31.50**
7248-6—6 Matched Irons. List $48.00, now **$39.50**

Only 10% Down

KLEIN'S
Sporting Goods

SINCE 1885
227 WEST WASHINGTON ST. CHICAGO 6, ILL.

$1 Klein's Biggest $1.00 Bargain! $1
Clip coupon, attach $1.00 (cash or stamps) for Klein's Big All Sports Latest Catalog, Plus Free Book: giant size Gun or Tackle Encyclopedia, $2.75 Value, all for $1.00!

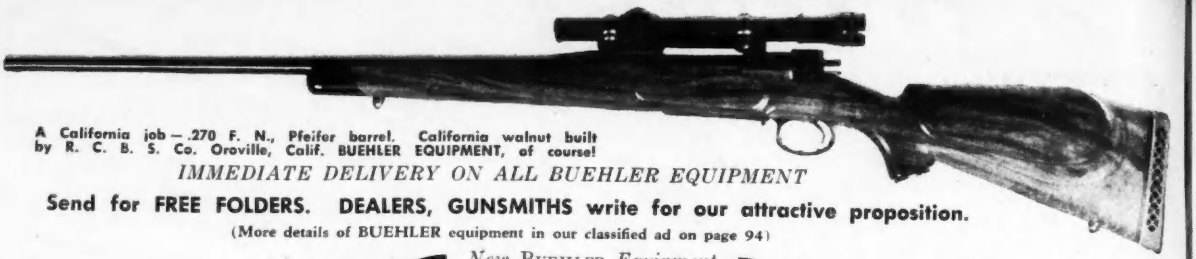
UNCONDITIONAL MONEY-BACK GUARANTEE ON EVERY PURCHASE
Add sufficient amount to cover shipping charges. Overpayment will be refunded.

Rush me.............................. Size:.................. Dept. 5-6
(Use bottom of page or separate sheet for additional items. Your Name and Address)

☐ ENCLOSED IS $.................... ☐ Full Payment ☐ Part Payment
☐ Ship C.O.D. 20% deposit necessary.
☐ Enclosed is 10% (or more) Down. I will pay balance $..............monthly.
☐ I am shipping my gun(s) for Trade or Cash as explained in my attached letter.
If ordering on easy payments, please state your exact occupation and age.
If you work on a farm, order must come from farm owner. State all details.

IMPORTANT NOTICE to PURCHASERS of FIREARMS or AMMUNITION
Kindly sign the following statement: "I am not an Alien, and I have never been convicted of a crime of violence, nor am I under indictment or a fugitive from justice."

SIGNATURE.............................. OCC.................... AGE........



A California job — .270 F. N., Pfeifer barrel. California walnut built by R. C. B. S. Co. Oroville, Calif. BUEHLER EQUIPMENT, of course!

IMMEDIATE DELIVERY ON ALL BUEHLER EQUIPMENT

Send for FREE FOLDERS. DEALERS, GUNSMITHS write for our attractive proposition.

(More details of BUEHLER equipment in our classified ad on page 94)

New BUEHLER *Equipment*

"LITTLE BLUE PEEP"

A convenient auxiliary iron sight to replace a damaged scope. On or off in a jiffy *without disturbing scope zeroing.* Carry one in your watch pocket (weighs ½ oz.) and be prepared.

$3.35 P.P. Model B for *Buehler* mounts
Model R for *Redfield* mounts

MAYNARD P. BUEHLER

Manufacturers of . . .
BUEHLER Safetys, Scope Mounts, Special Gun Screws
697 Vernon St., Oakland 10, Cal.
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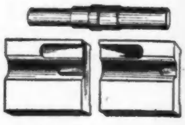
WESTERN SCOPE SERVICE
Calgary, Canada

BLOCKS BOLT BENDING

Alter bolts by forging—no cutting or welding on all military bolts. This Universal set of blocks fully protects all camming surfaces and locking lugs from heat. An altered bolt in a few minutes.

$15.00 P.P.



Requires Use of Oxy-Acetylene Torch

Happy Hunting
Oh! Oh! Too bad!
Scope Damaged.
Little Blue Peep to the Rescue
End of Perfect Day, Thanks to Blue Peep

(Continued from page 58)

you point the gun until the white dot indicator is over the white end of the needle (white indicators are luminous). You then return on the path pointed by the gun. By taking occasional checks and allowing for any movement you have made from the left or right of the course, you should come out of the woods very close to your starting point. Produced by the Poly Choke Company, Inc., Hartford 1, Connecticut, it retails at $3.00.

☆ ☆ ☆

Telephone communication system looks like it might be adapted to use on the rifle range, since it does not require batteries or any other source of power. It is very simple to hook up: The units can be operated over two conductors or a single wire with ground return circuit.

The Wheeler Insulated Wire Co., of 150 East Aurora St., Waterbury 91, Conn., makers of the system, claim it is essentially weatherproof, resistant to corrosive elements, and over it a whisper is audible. The system can be used over a distance of 20 miles.

Some of the possible uses of it are for communication between firing line and butts, between range officer and club house or statistical office, between various ranges at clubs where a variety of activities are engaged in.

☆ ☆ ☆

'Quick' and 'Custom Grade' stock finishes are being sold by Tom Froley, Easton, Maryland. In a few minutes after preparing the surface and applying the Quick finish the beauty of the natural figure in the wood is brought out in a glossy, usable surface. These qualities make it fine for touching up spots where wood has been removed.

The Custom Grade finish takes time to apply but it is for use in obtaining a superior looking job. We haven't tried the Custom Grade finish yet but we expect to have a stock on which to give it a test in the near future. Froley sends complete instructions for the finish with each bottle.

Retail price of Quick finish is $1.50 for a four-ounce bottle, of Custom Grade finish $2.25 for a kit (enough for several stocks).

BOOK REVIEWS

NRA BOOK OF SMALL ARMS

Vol. II, Rifles

By W. H. B. Smith

The chief criticism of this extensive work is not in the contents of its 546 pages, but that it should have been double the size.

Walter Smith has again proved to be one of our top firearms researchers. His major fault in this volume was trying to include full data on all firearms. It would be impossible for any author to give all available detail on all rifles in any single volume. Hence, the editors, for mechanical reasons of publication, were forced to condense.

For the enthusiast who wants full information on *every* gun type, make and model, this volume will be a disappointment. For the man who wants a good reference of good basic description of most of the guns made, this book is practically a must.

The first 75 pages are devoted to the evolution of shoulder rifles. It is sketchy—detail would cover 750 pages—but it is notable for its excellent documentation. By digging down to basic data, Smith has exposed many errors which have been copied and recopied from one author to another so long that they have come to be considered gospel. The few small mistakes contained in this prologue are of little importance.

After fifteen pages devoted to a discussion of rifle action types, Part III of the book, on the modern rifle, begins on page 95. Here the various countries of the world are listed, alphabetically, beginning with Albania and terminating with Yugoslavia, with a description of Government arms plants and private plants, together with principal military rifles. Such a coverage cannot be complete.

In gathering his world-wide information from various sources, Smith has committed a number of errors of omission. His data is sketchy.

Further study of the various countries indicates that much of the information was obtained from mail-order sources or study of incomplete museum pieces. For example, his comments on Danish rifles and manufacturers make it plain that he did not obtain first-hand information. There are other rifles manufactured in Denmark besides those indicated. On ammunition he is far behind the times. He refers to the Danish official bullet as a round-nose 237-grain bullet. Twenty years ago the British *Textbook of Small Arms*, 1929 edition, listed the Danish bullet as a 196-grain pointed. It still is. In 1948 this writer imported some cases, primers and bullets from Haerens Arsenal, Denmark. The bullets bore a 1944 manufacturing date —and they were still pointed and 196 grain.

Throughout the book, you will find many little errors of this type. But because of them, the work should not be condemned. It will never be accepted as a completely authoritative work for collectors, but it does give excellent coverage of the world's rifles.

This book belongs in the library of every gun enthusiast. It will settle many questions. What is the difference between the Model 98 rifle and carbine of World War I and the Model 98 carbine of World War II—and the Model 24, or Model 33/40? You'll find the answer here.

Even though it lacks complete coverage, I recommend it to those who are inclined to be critical. If you have something to add —a sincere criticism, not of the over-all book, but detailed information which has been omitted, or specific corrections which you can verify (quote source of your information), I suggest that you write the NRA. They will file the information for use in future editions. I suggest that you mention the page number of the omission or error. It will help place your suggestions where they can be used.

This reviewer thinks the volume far from complete—yet his copy is not for sale. Despite all shortcomings, it is worth the price of admission.—PHILIP B. SHARPE.

(Published by Military Service Publishing Co., Harrisburg, Pa., and the National Rifle Association, Washington, D. C. 546 pages, price $12.50. Available through NRA Book Service.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance,* made payable to "National Rifle Association"—1600 **Rhode Island Ave., Washington 6, D. C.** *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: June 1st for the July issue. Ads received after June 1st and not later than July 1st will be inserted in the August issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only,* will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30, 250-3000, $150.00, $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith: H. B., meaning heavy barrel). Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

8. Responsibility for Illegible Copy: Type or print ads plainly, for we can not be responsible for errors due to illegible writing.

9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions*: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

12. Fair Trade Laws: All states with the exception of Missouri, Texas, Vermont and the District of Columbia have Fair Trade laws which permit manufacturers to contract with their distributors to maintain standard retail prices. Dealers who fail to do so are subject to legal action.

FOR SALE

AMMUNITION SPECIALISTS — LARGEST rifle, pistol and shot shell stock in America. Factory loads only! Over 250 varieties of cartridges, including many of the scarce American and foreign types, in practically all sizes, for immediate delivery. Send 3¢ stamp for list #2-1949. Life Member, Philip Jay Medicus, Dept. A-6, 18 Fletcher Street, New York 7, New York.

INVENTORS: HUNDREDS OF MANUFACturers have requested our assistance in locating marketable new products. Complete information, free. Institute of American Inventors, Dept. 131, 1926 Eye St. N. W., Washington 6, D. C.

TENTS, WAR SURPLUS, ALL SIZES; COTS, hammocks, camping equipment, canvas covers, fishing & sporting goods, rope. Morsan, 10-19J,50th Avenue, Long Island City 1, N. Y.

FACTORY REJECTS — AMAZING VALUE! Same genuine Imported Briar as our regular $10.00 pipes. Have surface flaws not affecting superb smoking qualities. Outstanding buy. 2 for only $1.00. Satisfaction Guaranteed. Gaylords, Dept. 284, Brockton 64, Mass.

HI-WALL IMP. ZIPPER, FANCY CHEEKpiece stock blocks $150.00. New. Latest Rem. 16 auto. imp. cyl. New $90.00. Jap Minolta reflex camera $100.00 or trade for German gun. R. Vail. Warwick, N. Y.

NEW GUNS: IMMEDIATE DELIVERY. REMington #721—30-06, 270 or 300 Magnum $79.95. Remington #722—300 Savage or 257 $74.95. Savage 99 E.G. 300 $96.45. Remington 141 Pump 30-32 or 35 calibre $104.95. Remington 81 Autoloading, 30-35 or 300 calibre $129.95. Discount for dealers. Shipments prepaid. Send money order or check. Mann's Sporting Goods Company, 100 Genesee Street, Utica, N. Y.

WALTHER SHORT MODEL OLYMPIA 22 L.R. excellent $95.00. Beretta Service pistol, new $35.00. F. R. Hinds, Falls Church, Virginia.

BENCH REST TARGET SPECIALLY DEsigned by a bench rest shooter. 100 and 200 yard targets as described by Warren Page in June 1948 Field and Stream. 22 caliber holes spotted easily at 200 yards even with scopes of lower magnification. Specify target wanted. $2.50 per hundred postpaid anywhere in the U.S. Tom Higgins, 718 Eighth St., Berwyn, Pa.

LEARN ABOUT ALASKA. HUNTING, FISHing, Homesteading. Read beautifully printed and illustrated magazine—The Alaska Sportsman. Send 25¢ for sample copy or $2.50 for one-year subscription to The Alaska Sportsman, Box 118, Ketchikan, Alaska.

REMINGTON 37 TARGETMASTER, PERFECT, Redfield front, Remington rear, 15 power Super-Targetspot, Lee dot, $165.00. R. E. Denson, 807 Underwood, Toledo, Ohio.

WIN., MARLIN. CARBINES $59.00. 150 Trap, Skeet, Hunter's guns. List, dime. Phone 4012 Z, Hershey's, Orrville, Ohio.

PERCUSSION COLT AND REMINGTON parts. Flint and percussion locks. List 25¢. C. H. Weisz, 100 S. Uhle Street, Arlington, Virginia.

SERVICEABLE SA COLT PARTS:—MAINspring $2.00; hammer $3.25; hand w/spring $2.00; trigger $1.25; gate $1.75; ejector head $1.50; trigger guard $3.00; screws 35¢ each; .45x5½" barrels, pitted, $2.25. 20-shot magazine for .30/06 Springfield $6.75. C&B revolver repair parts. B. K. Wingate, Box 481, Reading, Pa.

NAVY OXFORDS, GENUINE U. S. SURplus, finest black calfskin, famous makes, specify size, $7.95 check or money order (add 50¢ for postage and handling). AR Rudolph's, Atchison, Kansas.

OUT-OF-PAWN, "SHOTGUNS", "RIFLES", "Pistols". Big Savings, write needs, enclose stamp. Virginia Pawnbrokers, Danville, Virginia.

FREE SERIES OF BULLETINS ON MODERN guns through 1949—write to Allan Luithle, Highway #10, General Delivery, Morris Plains, N. J.

BIG CATALOG, ANTIQUE GUNS FOR sale. $1.00. 475 photographs. Satisfaction guaranteed. Gil Hebard, Knoxville 5, Illinois.

ELECTRIC PENCIL: ENGRAVES ALL Metals. $1.25 postpaid. Beyer Mfg., 10511-Z Springfield, Chicago, 43.

IMMEDIATE DELIVERY, NEW GUNS rifles, handarms, scopes, binoculars, ammunition. Send stamp for list. Discount to dealers. Many good buys. Overly's Gun Rack, Ephrata, Penna.

CASWELL TARGET CARRIERS FOR INdoor rifle and pistol ranges. Priced from $22.80 to $31.20. Write Caswell Target Carriers, Anoka, Minnesota.

ANNOUNCING IMMEDIATE SALE OF 700 pistols from extensive Dr. Howard Andrews collection. Order from our recent Foster catalog ($1.00) which describes, illustrates, prices similar standard types. . . . Another carefully compiled catalog, featuring target, sporting, military shoulder arms (Andrews and other collections) ready in June ($1.00). Please specify catalog desired when ordering. James Serven, Santa Ana, Cal.

NEW BOUND CATALOG CONTAINING hundreds of antique and modern arms, edged weapons, cartridges, accessories and small antiques 25¢. H. A. Brand, 105 E. Third St., Cincinnati, 2, Ohio.

GUN RACKS, SOLID WALNUT, NEW, TO hold 4 guns, handsomely made, $6.95. For 6 guns, $9.95. 4th Annual Gun Digest $1.50. Send money order. Public Sport Shops, 11 S. 16th Street, Philadelphia 2, Pa.

CLOSING-OUT SPEER AND MGS BULLETS, 10% off, prepaid. Send for list. Also once-fired cases, powder, etc. Paul Ratliff, Spirit Lake, Idaho.

ARMY CLOTHING, BOOTS, RAINCOATS, blankets, tents, cots, sleeping bags, slings. List free. Martin Kahn, 3461 Third Ave., Bronx, 56, N. Y.

COLT S.A. .38-40, 4¾", BLUE, PERFECT, slightly rust spotted out, over 330,000, a beauty, $95.00. Colt S.A. 45, 7½", blue, good to V.G. in and out $55.00. S & W .45 Govt. '17, blue V.G. to excellent, perf. bore $37.50. S & W .45 Commercial Mod. '17 excellent in and out $47.50. Lots Colt percussions, write C. E. Conrad, 715 Gudgell, Indep., Mo.

THE "HOLLOWPOINTER" NOW IN TWO models. One for boattail bullets. One for Service cartridges. Satisfaction guaranteed. $2.50 delivers. M. O. Neis, 827 E. 95 St., Los Angeles 2.

"PLEASE STOP my ad-

Until I can catch up with the orders already received! "Results so far have been truly amazing; I can't speak too highly of the 'Arms Chest' as an inquiry and sales producer."—*Pa.*

Gun enthusiasts have a wide variety of needs, for shooting and hunting equipment of many kinds.

☆ ☆ ☆ ☆ ☆

You can reach the 'Cream of the Crop'—over 315,000 individual NRA members — thru these 'Arms Chest' ads, at a cost of only 25¢ per word.

☆ ☆ ☆ ☆ ☆

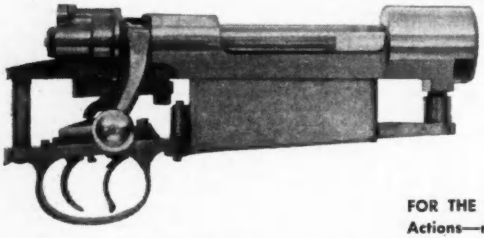
July 1st is the final closing date for the August issue. See above for full instructions.

Firearms International

F. N. MAUSER ACTIONS

with Single Trigger or Double Set Triggers

• PROMPT DELIVERY – LATEST MODEL



- Low-scope bolt handle
- Low-scope safety
- Quick removable floor plate
- Solid receiver wall
- Streamlined rear bridge

FOR THE FINEST IN CUSTOM GUNS—use Firearms International F. N. Mauser Actions—manufactured by the famous Fabrique Nationale in Belgium.

YOU NO LONGER NEED ACCEPT WARTIME ACTIONS WITH MAKESHIFT ALTERATIONS

FIREARMS INTERNATIONAL CORPORATION • 1526 CONNECTICUT AVENUE
WASHINGTON 6, D. C.

Accuracy • Flat Trajectory • Reliable Expansion

Actual size group 10 shots, 100 yds. .257 Magnum, 100 grain SPEER bullet, 60 grain No. 4350. Name and address of shooter on request.

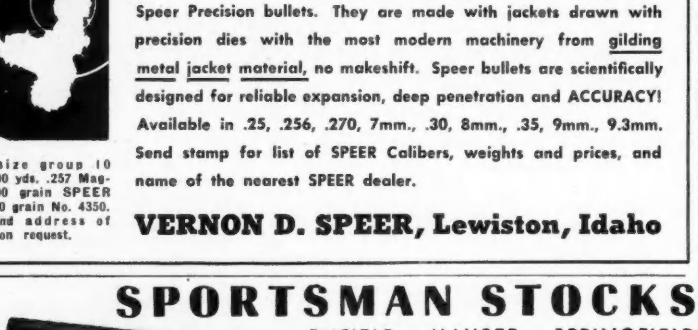
"The finest game bullet in the world"!

This is what riflemen all over North America are saying about Speer Precision bullets. They are made with jackets drawn with precision dies with the most modern machinery from gilding metal jacket material, no makeshift. Speer bullets are scientifically designed for reliable expansion, deep penetration and ACCURACY! Available in .25, .256, .270, 7mm., .30, 8mm., .35, 9mm., 9.3mm. Send stamp for list of SPEER Calibers, weights and prices, and name of the nearest SPEER dealer.

VERNON D. SPEER, Lewiston, Idaho

SPORTSMAN STOCKS

ENFIELD • MAUSER • SPRINGFIELD • ARISAKA • KRAG



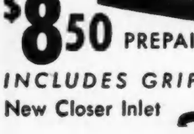
$8.50 PREPAID

INCLUDES GRIP CAP AND BUTT PLATE

New Closer Inlet New Design

The

SPORTSMAN SHOP, GREELEY, COLO.



APEX DOTS

When you receive a center dot from me, you receive a die cut gauge of the size you order. You put up the gauge, then judge the range. You will move closer or farther from gauge. When both look the same, you then measure distance, and you will have exact range stated on gauge. What better proof of accuracy?

All my work has a test gauge with it, be it dot, rangefinder, or rangelines. Each is designed for most accurate gauging.

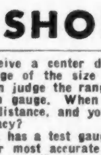
Owing to the complications of making more than two dots on parallel lines, I must limit same to direct only.

All my instruments are of my own invention, down to two types of microscopes with which I defy anyone to do better AVERAGE work.

Please send for free folder and price list.

Gordon L. Bailey P.O. Box 433, Lebanon, Pa.

SHEATH



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FOR GUNS, TOOLS, TACKLE
At your dealers 50c & $1.00
Brownell Industries, Inc., Montezuma, Iowa

Address correspondence and orders to
A. B. Harris Company, 574 Monroe St., Gary, Indiana

WINCHESTER, 70, .30-06 $120.00: REMINGTON, .300 $90.00; Remington, .270 $90.00; Winchester, 42 .410, Pump $85.00; Stevens, 325, .30-30 $55.00. All above guns new. Many other new guns in stock. Gun Case, Hard Maple, two glass doors, 14"-66"-76" $85.00. .25-35 Winchester, Super-Speed Cartridges, Fresh Stock, $1.90 per box. Francis S. Boggess, Liberty, Missouri.

POPE BALLARD, 22, SCHEUTZEN. Request details. Stamp. John T. Ewing, Auto Sec TIS, Fort Benning, Georgia.

ILLUSTRATED 179 PAGE CATALOG OF antique firearms and edged weapons 50¢. Robert Abels, R-860 Lexington Ave., New York 21.

NEW AND USED WINCHESTER, REMINGton, Savage, Stevens, Marlin, S&W, Colt. Bought, sold, traded. Write your wants. Satisfaction guaranteed. Brewster's, Grafton Center, N. H.

'23 K-HORNET WITH 6X SCOPE, VERY good. Include cases, primers, loading equipment $100.00. John W. Crisford, 7065 Granada Lane, Mission, Kansas.

MINE DETECTOR, "SCR-625", THE GOOD kind, with batteries, $62.50. Air force sextants, A-12, with case, $12.50 each, to close out. J. W. Eatman, Cuero, Texas.

OUR CATALOG OF EDGED WEAPONS DEscribing and pricing a museum collection of swords and daggers will be sent on receipt of fifteen cents in coin. Kimball Arms Company, Woburn, Mass.

GUNS, REVOLVERS, AMMUNITION, ALL sizes. Mail 10¢ in coin for list. Miller's Sport Shop, Dept. R-142 N. 8th St., Phila. 7, Pa.

CLEAN, ONCE FIRED COMMERCIAL cases. 300 Mag., 35 Rem., 30-06, 270, .257 Rob., 300 Sav. Free price list. Shell Shop, Box 24, Ilion, N. Y.

WORLD'S FINEST, RAREST, ANTIQUE guns. Selling out, list 14. Self addressed, stamped, long envelope. Miller Bedford, New London, Ohio.

"SHOTGUNS" — "RIFLES"—"HANDARMS" —"Ammunition"—"Rods"—"Reels". List 10¢. AR Rudolph's, Atchison, Kansas.

LARGE COLLECTION OF AMERICAN AND European antique arms. Send 25 cents in coin for our 17th edition catalog featuring the private collection of a gentleman of Massachusetts. We buy whole collections or single pieces. Fair prices paid. Kimball Arms Company, Woburn, Mass.

NEW ENFIELD STOCKS (ARMY SURPLUS). Fully and correctly inletted; fits all U.S. Model 1917 rifles. Fine, clean walnut with contrasting grain. Price $2.00 postpaid. Extra fancy grain $3.00. For shaping and finishing to sport model, add $3.00. B. B. Ellerbeck, 42 Ninth East Street, Salt Lake City, Utah.

SUNGLASSES — NEW! SURPLUS, MADE for U. S. Navy. Green, ground glass. With case, $1.10 each, 5 for $5.00 postpaid. Life Member, Philip Jay Medicus, Dept. A-6, 18 Fletcher Street, New York 7, New York.

RELOADING DIES: SIZING & SEATING. For the new 30/06 Imp. (Mizer Magnum); 300 H & H Mag. Imp.; 270 Ackley Imp.; 257 Jap. 6.5 MM; and .219 Don Wasp; dies fit Pacific, Universal or Easton Tools. Price per set (sizing & seating compl.) $13.50. Driver Equipment Co., 1152 Valencia Str., San Francisco 10, California.

SPRINGFIELD 45/70 PARTS
NEW BARRELS $8.50—LOCKS, RECEIVERS, SIGHTS, BULLET MOULDS *etc. Send for FREE list*
JAMES E. SERVEN·Santa Ana, Calif.

CATALOG ON
REQUEST

JAEGER **CUSTOM BUILT RIFLES**

For Most Popular Cartridges — Mauser or Springfield Action

QUICK DETACHABLE SIDE MOUNTS

Light Weight • Rigid • Can Be Attached or Removed in a Few Seconds

REBARRELING FOR SUITABLE
cartridges in any desired weight

RESTOCKING—HAND FITTED STOCKS
in selected French or American Walnut

PAUL JAEGER • JENKINTOWN, PA.

CARTRIDGE COLLECTORS' CATALOG—Entirely New Issue—#2, with illustrations and interesting data, invaluable for collectors, shooters and dealers. Most complete publication of its type. Sent postpaid for 35¢. Life Member. Philip Jay Medicus, Dept A-6, 18 Fletcher Street, New York 7, New York.

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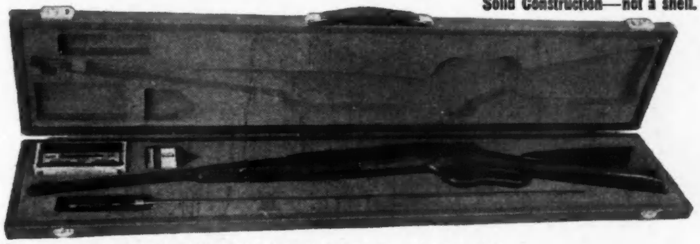

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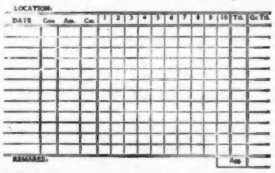

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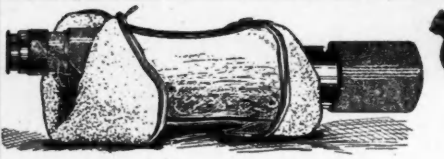

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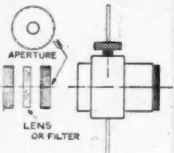

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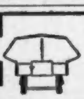

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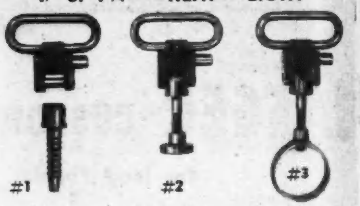

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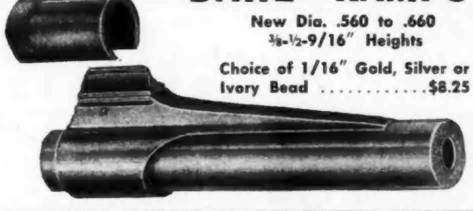

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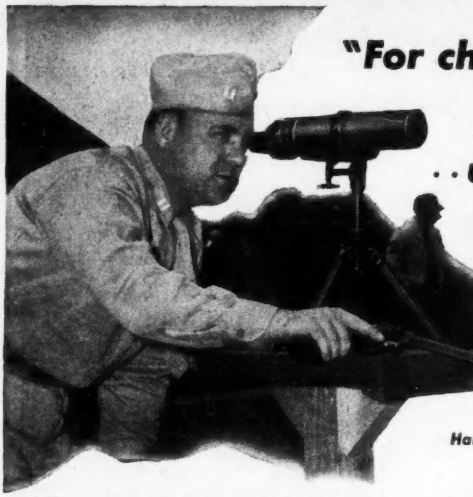

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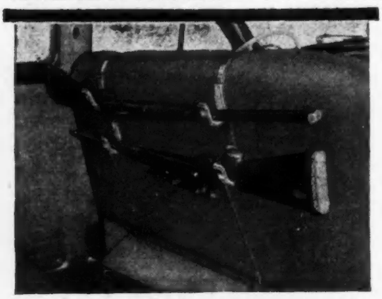

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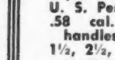

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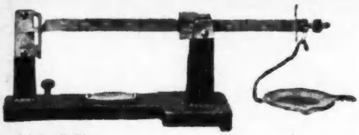

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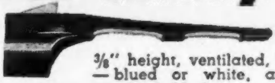

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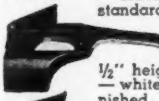

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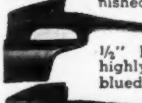

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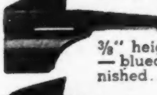

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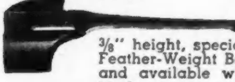

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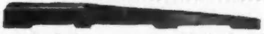

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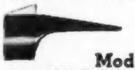

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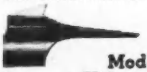

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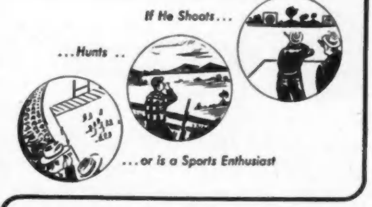
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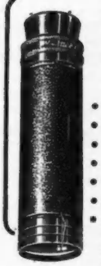

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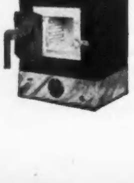

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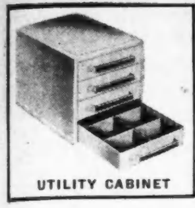
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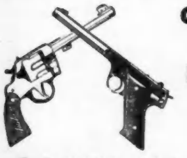

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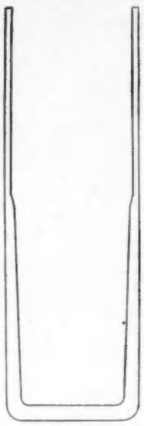
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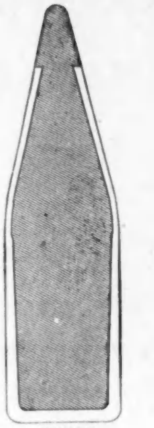
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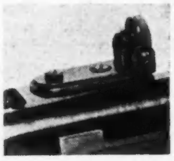

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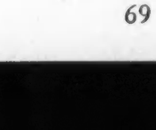

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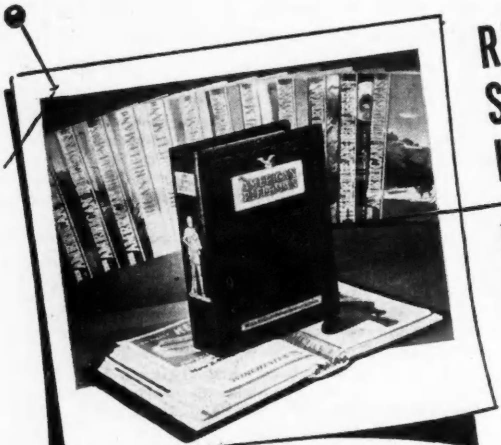

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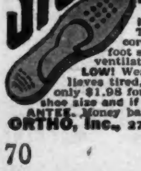

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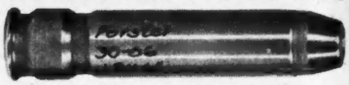

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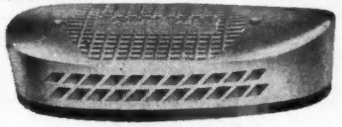

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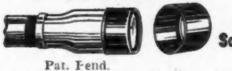

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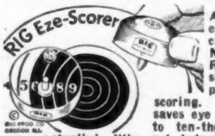
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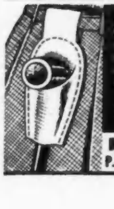

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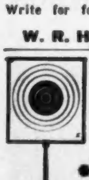

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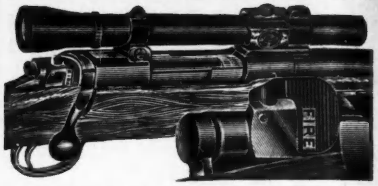

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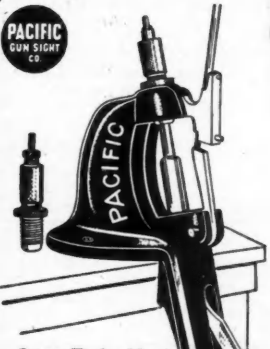

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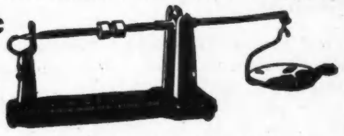

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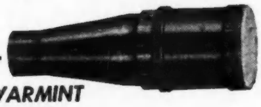

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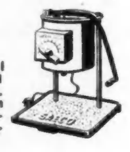

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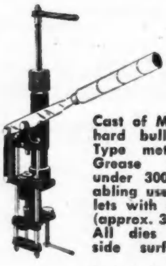

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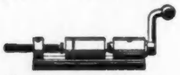

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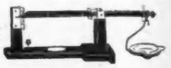

Capacity 325 grains. Tenth grain accuracy with tenth grain over and under graduations. Clearly graduated beam with self-aligning bearings. No weights required $11.95

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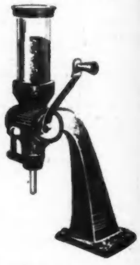

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. . . is available in single-shot or magazine types, .177 or .22 cal. A man's size, fine quality gun, with perfect balance, rifled barrel, rear peep and blade front sights. At sporting goods or hardware dealers, or write direct.

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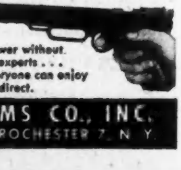

Is a new .177 cal. single-shot target pistol with all Crosman "power without powder" advantages. Endorsed by experts . . . Inexpensive to own and shoot—everyone can enjoy it. At your dealer's . . . or write direct.

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.38 SPECIAL, POLICE POSITIVE. NEAR new, $55.00; complete reloading, moulding outfit, $16.50. Dever A. Colby, Del Rey, California.

U. S. MARTIAL FLINT PISTOL BY T French, from Beasley collection. Restored to Flint. Fine $195.00. Enyart, 1635 W. 104th, Chicago.

.45-70-500 SMOKELESS CARTRIDGES. $3.48 per 40, $8.00 per 100, Mauser clips, model 1888, two for $1.00. Used 1¼ inch military rifle slings, (good) two for $1.00. Ten two ounce cans Rifle Bore Cleaner for $1.00. Write for list of .45-70 Rifles, Carbines, Parts and Accessories. Frankford Arsenal hand reloading tools for the gallery cartridge. Calibers .30-03 and .30-06 @ $10.50. .30-40, .30-03 and .30-06 @ $12.50. All parts are in excellent condition. Sets consist of the following tools: Anvil, ejecting stem, funnel, loading die, loading punch, inside neck resizing die, outside neck resizing die and wiping rod. Bolin's Gun Shop, 9R, Grand St., South Amboy, N. J.

MERKEL BROTHERS OU, 12 GA., SINGLE trigger, vent rib, heavily engraved. Side locks. Perfect. $850.00. Mauser Magnum, Commercial action. $195.00. Mauser-Waffen, 22 HP, Commercial 22¾" ribbed $150.00. Czech-Mauser Bruno, 7x64, excellent $195.00. Westley Richards .318 Express, 26" barrel, 7 boxes 250 grain, Zeiss 4XQD mount $350.00. FN Mauser, new 10 .75x68 custom stock $165.00. Marke Luchs 7x57R double rifle 21¾", heavily engraved $275.00. Remington Express, 257 Weatherly Magnum K4, Waver Stith QD, complete tools $250.00. Merkel Brothers 8x57R double rifle, Excellent $350.00. Jack Dutton, 2209 W. Olmos Drive, San Antonio, Texas. No Trades. Money Order. Inspection.

NEWTON .270 D.S. TRIGGER, STITH FACtory mounted K2.5, three Lee dots, Pachmayr pad Inside excellent, outside vg. $185.00. Lee Bagly, Happy Camp, California.

NEW GUNS; STEVENS M-322 .22 HORNET $42.95. Winchester M-70 .270; 30/06 $110.50. Remington M-721 .270 30/06 $79.95. Savage M-99 .300 $96.45. Winchester M-1894 30/30, half octagon, half magazine, V.G. $45.00. Mauser 8mm Amberg 1917, Reblued V.G. $35.00. Stevens 20 Ga. 28" F&M, Walnut Stock, Excellent $40.00. Waffenfabrick Mauser cal. 7.62 auto., V.G. $37.50. Stamp for List. Valley Sporting Goods, Herkimer, N. Y.

NEW, NEVER FIRED, '94 WINCHESTER Carbine 30/30 $60.00. Tom Jacks, Helena, Ark.

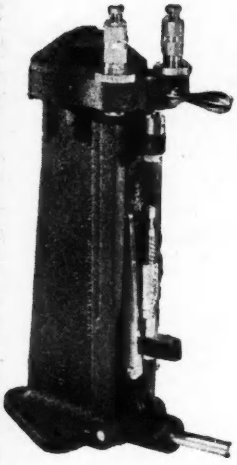
NEW 721 REMINGTON 270, WEAVER K-6 Rangefinder, Stith Master Mount $150.00. Ira Brill, Albion, Indiana.

EXCELLENT CONVERTED 270, M-1 GARAND Sporter, J-4 Scope $140.00. Excellent rechambered 300 Savage Jap Adj. peep $30.00. Custom stocking, rebarreling. J. L. Shull, Tyler, Texas.

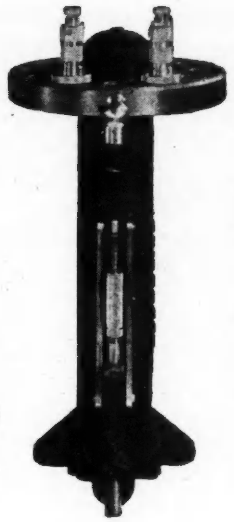
LIQUIDATING, SACRIFICING GUNS, AMmunition, bullets, free list. George Svehla, 1074 Yellowstone Rd., Cleveland Heights 21, Ohio.

70 HORNET, K2.5, ECHO MOUNTS, LITSchert conversion to 6 power, 8 boxes ammunition $150.00. Barron Planer, $6.00. Above very good. Harry C. Putnam, 10 Cherry St., Glens Falls, N. Y.

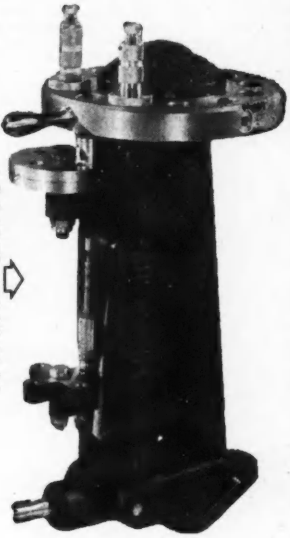
UNIVERSAL *RELOADING TOOLS*



The Model "A" Universal Tool has a three position indexing turret head, holding any three dies in sequence. Complete for one caliber as shown, $47.50. Any parts of the tools to the right can be put on this model.



The Model "B" Universal Tool, same as Model "A" Tool, except that it has a twelve position indexing turret head, holding any twelve dies in sequence, complete for one caliber as shown $55.00.



This Model "B" Tool with added features, same as Model "B" Tool, except that it has rotating indexing shell holders and primer rod turrets, complete for one caliber as shown $68.50. Many tools can be added, such as: bullet puller, semi-automatic primer feed, and powder measure adaptor dies.

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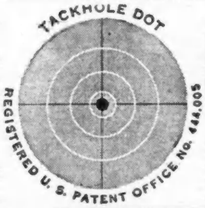
THE LEE TACKHOLE DOT


TACKHOLE DOT
REGISTERED U. S. PATENT OFFICE NO. 444,005

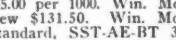
reticule is factory equipment in Bausch & Lomb, Lyman, Alaskan, Challenger and target scopes, Fecker, Unertl, Stith Cub, Norman-Ford Texan. It was chosen over the imitations on sheer merit after rigid investigation and tests by above manufacturers of America's finest scope sights. These leading firms spare no expense to produce instruments of the highest quality that have made their names in the optical field famous throughout the world. At this writing Weaver scopes are NOT factory equipped with the Lee Dot since it was not possible to produce the Lee Dot at the low price a substitute was offered. Weaver scopes nor boxes are labeled to indicate the name of the dot maker as they leave the factory but some unscrupulous dealers are offering customers these scopes as being LEE DOT equipped, even marking the boxes "LEE DOT" as we discover when they are sent here for service. So beware of imitations! Every Lee TH Dot fitted at factories or here, bears my copyrighted label to identify it. Look for it, insist on it and accept no substitute.

Prompt installations in all above scopes mentioned as well as Weavers. Write for free illustrated folder and price list and hints on care of scopes. New scopes in stock immediate shipment, Lee Dot fitted. Challenger $97.50, Alaskan $72.50. Hawk $62. Falcon $58. Cub $65. Texan $62.50. Weaver G4 $16.75. G6 $19.50; J2.5 $30.50, J4 $35.50; K2.5 $45.50, K4 $53.00, K6 $56.50. Target scopes, attachments, mounts. Standard discounts to dealers. Prompt service, courteous and satisfactory dealing.

T. K. LEE, P.O. Box 2123, Birmingham 1, Ala.

CLOSING OUT, KING-PIKE MOUNTS, $11.50, Stith QED Mts. for M70 $10.00, for Savage 99, $9.00. Pachmayr Mounts $13.50. Buehler Mounts $10.00. Redfield Jr. Mts. ⅞" $9.50. 1" $11.00. No. 70 Sights $6.25, 102 sights $4.75. Lyman 17A globe sights $2.00. Coleman G.I. gasoline camp stoves $7.30. Win. 116 primers $5.25 per M. Leather shell belts 12-16-20 ga. $2.00. Hurd super casters $27.50. Mauser .257 cal. HB bullgun, no sights, excellent $75.00. Win. M-70 .250 cal. target grade, super grade stock, tapped for B mts. Excellent $90.00. Rem. M-24 .22 auto. rifle, fair to good in, good out, $20.00. Stevens 325 30-30 carbine, perfect $32.50. Rem. 513T .22 target with sights, perfect $41.00. Stevens 416-2 .22 target with sights, perfect $40.00. Win. M-21-12 ga. Deluxe Grade double trap gun, has everything, 30" F&F, perfect $300.00, solid rib. .38 super automatic pistol ammunition, $35.00 per 1000. Win. Model 52 Sporting rifle, New $131.50. Win. Model 21-12 ga. trap gun, standard, SST-AE-BT 30" F&F New $276.50. Other bargains, write Alvin J. Keim, Fredericksburg, Ohio, Rt. #2.

WINCHESTER 52 STD. PREWAR, LEAF rear, Redfield front, very good Fleece lined leather case $75.00. Two new Model 75 Winchesters, used for display purposes $42.00 each. Shamburg's Sporting Goods, Clinton, Oklahoma.

GUARD  **SCREWS**

for SPRINGFIELD, ENFIELD (std. or straight guard). KRAG and MAUSER, 60¢ a pair, post paid. Lock screw type for MAUSER, (4 screws). $1.25 post paid.

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22/250 CONVERTED MOD. 70 SWIFT. PERfect $115.00. Mod. 81 Rem. .300 Sav. K 2.5, Stith, excellent $135.00. R.C.B.S. .22 dies and accessories, perfect $35.00. Fox Sterlingworth 20 ga. M.F. Miller single trigger, excellent $70.00. Jay Folbre, 418 Garrity Road, San Antonio, Tex.

FOR SALE 12, 16 AND 20 GAUGE SHOTGUN shells loaded with Dupont bulk smokeless shotgun powder for Damascus barrels. $3.00 per box of 25 shells by express collect. State gauge, length of shell and size of shot wanted. Ernest Wingert, R 1, Chambersburg, Pa.

FREE BARGAIN LIST—USED AND ANtique guns. Write Martin Rywell, Harriman, Tennessee.

MAUSER RIFLE OWNERS — MODERNIZE your Mauser rifle by making the floor plate instantly removable. Stop struggling with that old-fashioned military floor plate catch. Replace it with a special release unit manufactured by Fabrique Nationale and your floor plate will be instantly removeable without the use of a bullet or pointed tool. Easy to install. Release Unit Complete $1.25 Prepaid. No C.O.D.'s please. Firearms International Corp., 1526 Connecticut Avenue, Washington 6, D. C.

SPRINGFIELD RIFLES MOD. 1903 CAL. 30-06; low number, proof tested to 75,000 lbs. and guaranteed; bores good to very gool; new semi-grip stocks; furnished either full military as issued or cut down, with Krag band and swivel; $40.00 each; Money refunded if not satisfactory; Martin B. Retting, West Hurley, New York.

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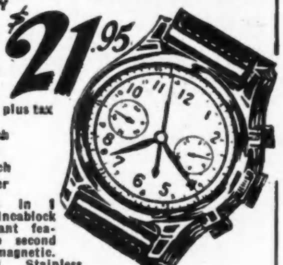

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GET DOLLAR FOR DOLLAR VALUE

When purchasing a gunstock, many are making a decision to which they must stick for the remainder of their active hunting careers. Others should be equally interested in getting the very best they can for the investment they are setting forth. With this in mind, Herter's invite comparison between the stocks which they offer and those otherwise available through recognized channels. Here are a few points for such comparison:

1. The Herter $6.50 field grade stock is of a quality walnut which is equal to, or better than, that found in stocks selling for what we believe is a good deal more than a fair price.
2. Many other machine inletted and shaped stocks regularly advertised as "first quality" do not have a **full** pistol grip which is so essential to the appearance and feel of a fine stock. Stocks without full pistol grips are so set up for fast production which eliminates the possibility of good design.
3. Many other stocks regularly advertised as "first quality" do not include a full set of fittings with the purchase price. A full set of fittings includes a butt plate, a pistol grip cap and a forearm tip.
4. Herter's precision machine inletting is to unbelievably close tolerances, yet the "guts" of the inletting are not slashed away. Inletting cuts are made to leave wood at vital points to support the action. Herter's stocks are designed so that rifles can be **fitted** to them. Tighter inletting is provided for professionals at no increase in price. Herter's guarantee their inletting to be the best available in machine inletted stocks.
5. The Herter stock is of walnut absolutely guaranteed to be kiln dried to a moisture content of 7% or less. We do not beat about the bush in making this statement. A top quality stock must be properly dried to minimize the possibility of warpage.
6. The Herter stock is fully guaranteed for customer satisfaction. This gives the customer protection and assures the same type service as "on the spot" buying.
7. Herter's are in the field to stay. This means that you can count on standard quality on a year-after-year basis. We offer the widest selection of stocks, both plain and fancy, listed by any stock manufacturer. Our catalog features everything from a blank to a finished stock.
8. Except on orders of a rare, special nature, Herter's deliveries are made within at least a period of two weeks following receipt of an order. Orders are acknowledged and shipping dates given.

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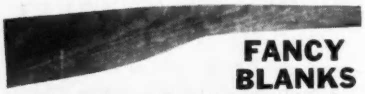
DUPLICATING: If you have a rare military rifle for which semi-inletted stocks are generally unavailable or if you have a stock on your rifle which you would like to have duplicated for a matched set, we can handle this work for you. In duplicating the work on military rifles, we inlet the blank and leave the outside shaping to sporter dimensions to be done by you. However, on sporter stocks, we can duplicate them both for inletting and shaping.

If you are a small producer of custom built rifles, we can afford you the savings of factory production methods on semi-inletted stocks to your patterns.

WRITE FOR QUOTATIONS ON ALL DUPLICATING



FANCY BLANKS
For Fine Custom Work

The largest stock of plain and fancy blanks available in America today is available at Herter's. All blanks are dried down to a moisture content of 7% or less and vary in price with the beauty of the grain. **AMERICAN WALNUT SPORTER LENGTH BLANKS:** Six price ranges from $2.75 through $25.00. **AMERICAN WALNUT MANNLICHER LENGTH BLANKS:** Field and custom grade, only, $5.00 and $9.50; **FRENCH WALNUT SPORTER LENGTH BLANKS:** Four price ranges from $7.00 through $40.00. **CURLEY MAPLE SPORTER BLANKS:** $16.00 and $30.00. **MYRTLEWOOD BLANKS, SPORTER LENGTH:** $10.00, $18.50, $23.50. **SHOTGUN STOCK BLANKS:** Five price ranges from $1.00 through $7.50. **SHOTGUN FOREARM BLANKS:** Five price ranges from 40¢ through $1.75.

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PRECISION MACHINE INLETTED
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Enfield, Krag, Springfield, Mauser, Short Action Mausers, Winchester M70, Jap 25 and 31 calibers, Remington M721 and 722, Win. K43. Any Grade Walnut Regular or Monte Carlo models with or without cheek rest. We guarantee our precision machine inletting is the most accurate in America. Using regular household tools, an amateur can bed an action in less than 3½ hours; an expert 1½ hours. Exclusive time-proved designs created by expert gunsmiths.

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POSTPAID

With knurled Tenite butt plate, pistol grip plate and forearm tip unattached and with screws furnished. Butt plate, pistol grip plate and forearm tip available in black, ivory or mottled walnut.

Stocks machine sanded and with butt plate and pistol grip plates attached $7.50. Add 75¢ for attaching forearm tip. Ivory or black spacer plates installed between stock and butt plate, pistol grip plate and forearm tip. Add $1.50. Add $7.00 for stock completely hand inletted so that rifle will drop right into place.

FANCY WALNUT STOCKS—Custom grade $11.45; Demi-Deluxe grade $15.00; Deluxe grade $20.95; Grand Deluxe and Grand Fiddleback grades $35.00 . . . all precision inletted, machine sanded, with butt plate and pistol grip cap installed. Write for quotations on stocks in curly maple and myrtlewood. Mannlicher type stocks for Mauser, Springfield, Enfield $11.50.

A. H. BARR Says;
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"I think you are doing a fine inletting job and I know a lot of stock makers who are using these blanks."

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"Naturally, I took the gun apart and inspected the inletting very carefully and . . . it is a very nice job. I like the close hand fitting and as long as you can turn out that kind of work I think you can get plenty of recommendations.

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These stocks are completely ready for use in the field and are absolutely guaranteed to be the finest available in the price range which they represent. Available with or without Monte Carlo comb and with a cheekpiece for a right hand shooter. For stock fitted with forearm tip, add $1.25. For ivory or black spacer plates installed, add 50¢, each. Add $3.00 for fitting stocks to actions with conversion barrels of standard sporter dimensions or smaller. Enfield stocks are designed for the straightened floor plate, with or without modified bolt; on Mauser stocks, specify whether battle sight sleeve has been removed.

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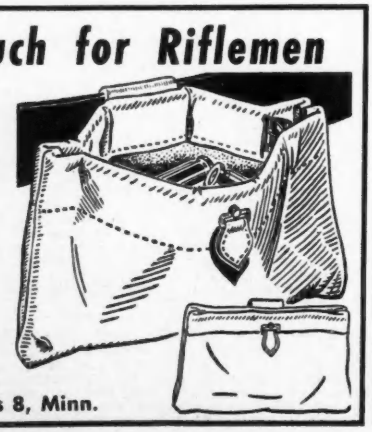

Woodcraft Sports Store
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TARGET EQUIPMENT: Match Ammo.—Win., West., Rem., Peters; New Win. M/52 H.B. (less sights) $96.85; New Rem. 37 Rangemaster (less sights) $98.45; Sights—Redfield Oly. front $9.50, rear $17.50; Vaver WIIAT $7.50, rear $20.00; Goss Super Vision front $8.00, rear $14.50; Lyman Super Targetspots 12-15-20X $90.00; B&L 60mm Spotter $95.00; Super Argus 20X $74.50; Saturn Scout 20X $25.00; K-T Scope Stand $15.00; Badger Deluxe Kits $12.85; Handyboxes $1.25; Freeland Gloves $3.75; 10X Imp. Coats $15.00—Gloves $4.00; Croft "Factory Seconds" Coats $7.25—Gloves $3.00; Myer's Cuffs $3.50 to $7.00—Slings $3.00 to $5.50; Sam Bond Cuffs & Slings $6.50; Boyt Gun Cases $4.95 to $11.75; Cleaning Supplies. Many other items.

RELOADING EQUIP.: Banta .22 Cal. Bullet Dies $40.00, core cutter $5.00, core seater $4.00; Pacific Super Frame w/toggle & handle for making bullets $22.85; Pacific, Lyman, B&M & Wilson Tools; Redding Powder Scale $11.95; Saeco Powder Measure $14.50; Bullets—M.G.S. .228, .257, .270, .30 & 8mm Cal.; Sisk 45 Gr. H, 50 Gr. L. .223 & .224, 42-49-55-63 Gr. Exp. .224; Sierra 45-50-55 Gr. .224; DuPont Powders; Win., West., & Rem. Primers. Some empty primed cases available; G&H Lovell $5.50 per C.

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COLT SINGLE ACTION 45 CAL. FACTORY reconditioned with new barrel, cylinder. Otherwise original. #175481. $60.00. E. H. Pepiot, Versailles, Ohio.

MARLIN 336, 30/30 CARBINES. NEW $61.45. Like new $56.50. Excellent $54.00. Savage 99 .300 Savage rifles new $96.45. Send stamp for list. Freedland Arms, 607 Greenwood Ave., Brooklyn, N. Y.

GUN RAINCOAT—FOR RIFLES AND SHOTGUNS: A flexible, plastic case which protects your rifle or shotgun against moisture and dust at home or in the field. It takes guns of all calibers and gauges, including rifles with hunting and target scopes, yet, it can be folded into a small package like a tobacco pouch and put into your pocket. Comes in two colors—transparent clear and opaque forest green. Price, $1.50 Prepaid. No. C.O.D.'s please. Distributed by Firearms International Corp., 1526 Connecticut Avenue, Washington 6, D. C.

ITHACA—LATEST NO. 2 GRADE, 10 GA, 32, both full, very good 100 supX case $150.00; J.P. Sauer 12 feather weight 26 Krupp F&M, 6 lb, 100, 2¾-1⅛-7½, case excellent $200.00; Modern, German, custom 3 bbl, 12x12, 9:3x72, 250 trap loads, 100 imported cartridges, V.G. $200.00; Colt Woodsman, 4½, 1000 Leader 22 LR V.G. $65.00; new Enfield, Bishop stock, Redfield ramp, 70 receiver, 200 custom 30-06 $70.00; Argus Spotting scope uncoated, 20X extra, 12:8 lens, excellent $59.50. J. W. Varner, P.O. Box 281, Scranton, Pa.

FINELY ENGRAVED G&H CUSTOM RIFLE, 35 Rem. caliber. Winchester 54 action. Poldi barrel. Excellent $325.00. H. H. Gaffin, 1527 E. Kessler, Indianapolis, Indiana.

SAUER, OVER/UNDER AUTOMATIC EJECTORS, engraved, solid rib, two triggers, 16x27, full, modified, very good, $240.00. S. Gerhardt, Jamaica Plain, Mass.

FOR SALE: 38 SPECIAL ONCE FIRED Cases, mixed makes $4.00 per 1000, One make in original Boxes $6.00. 45 ACP, Mixed $8.00 per 1000, One make in Original Boxes $10.00. Small and large Rifle or Pistol Primers $6.00 per M. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

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99 SAVAGE 250/3000. EXCELLENT IN, OUT. Stith mount, Weaver 330 Scope, Quick detachable swivels, sling. $120.00. 141 Remington, 35, Perfect in, excellent plus out, Pachmayr Pad, Echo mount, Lyman Alaskan scope. Lyman rear peep. $165.00. Hy Standard H.D.M. 4½" barrel, perfect $40.00. L. C. Smith, 12 gauge, ideal 18¼" barrels, excellent bore, good outside $30.00. 250/3000 Pacific Dies, shell holder, perfect $14.00. Lloyd Folsom, 116 Bartholomew Street, Peabody, Mass.

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8MM—7.7 Jap—6.5 Jap—$4.00 per 20—Other Calibers at Regular Prices—Also Speer Bullets in Stock
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BULLETS

Dia.	Type	Make	Gr. Wt.	Per "C"
.223"	S.Pt.Hornet	Sierra	40 & 45	$2.25
.224"	S.Pt.Hornet	Sierra	40 & 45	2.25
.224"	S.Pt.Spitzer H.V.	Sierra	45, 50 & 55	2.75
*.224"	S.Pt.Rd.Nose H.V.	Sierra	45, 50 & 55	2.75
.224"	S.Pt.6-Ogive Med.V.	Moffat	45, 50 & 55	2.50
.228"	S.Pt.Semi-Spitzer	M & G	70	4.00
.243"	S.Pt.8-S	Morse	75 & 85	4.25
.257"	S.Pt.Semi-Spitzer	M & G	60 & 87	$4.00 & 4.20
.257"	S.Pt.Semi-Spitzer	M & G	100 & 117	$4.40 & 4.60
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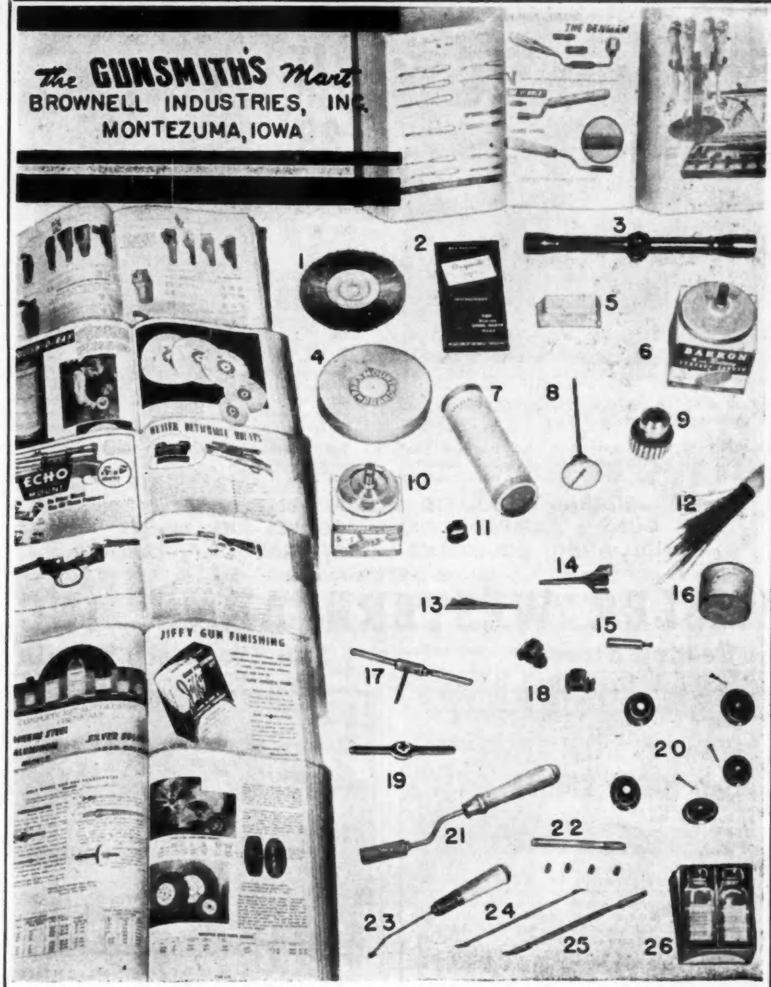

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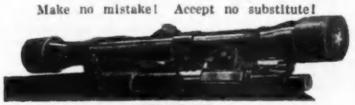

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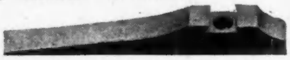

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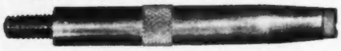

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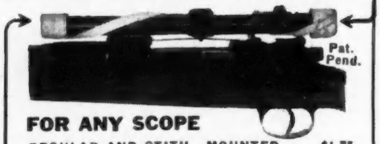

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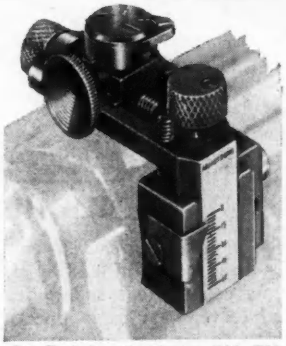

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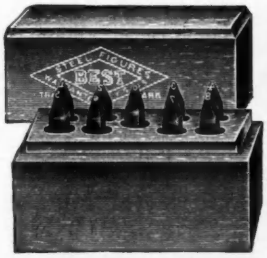

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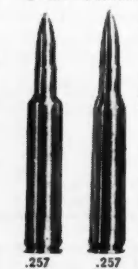

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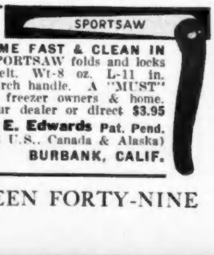

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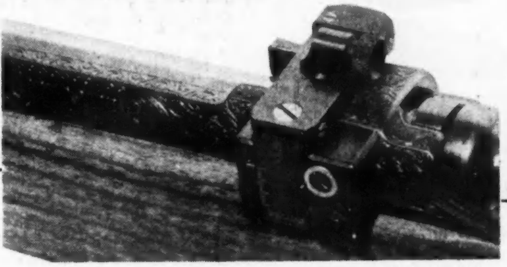

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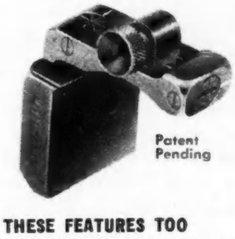

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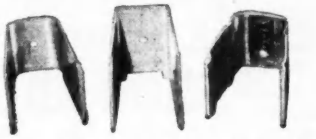

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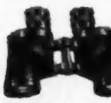

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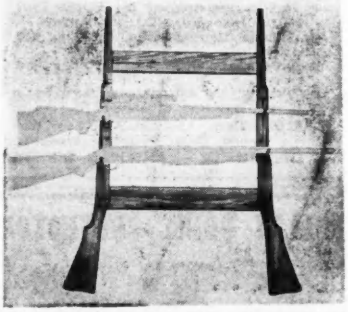

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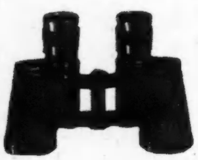

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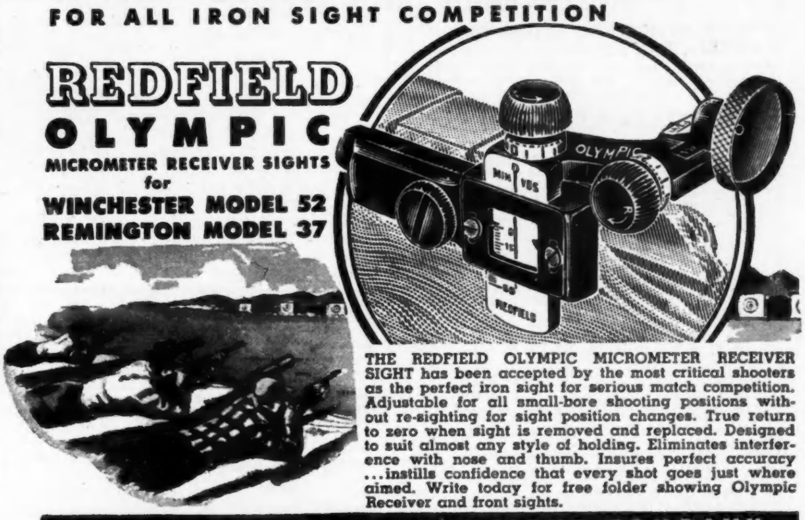

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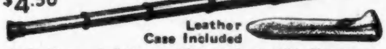

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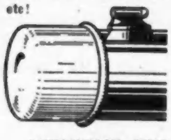

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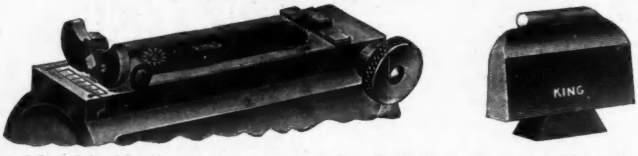

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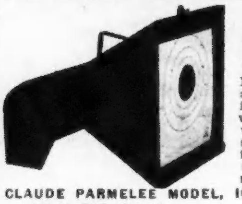

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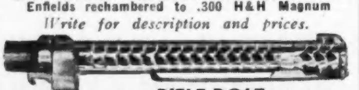

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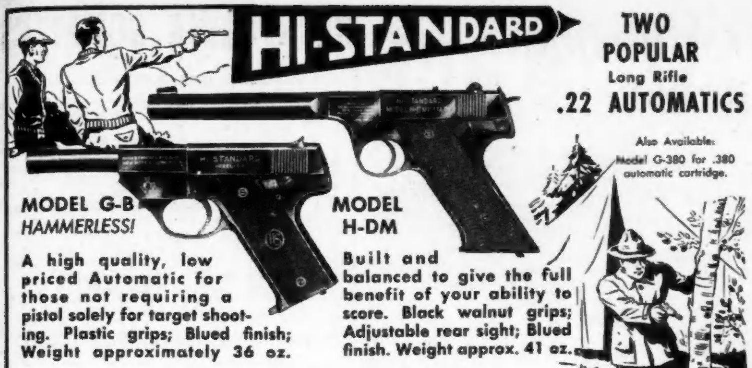

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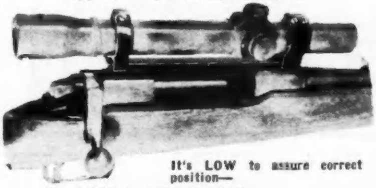

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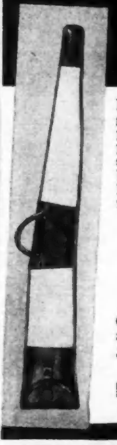

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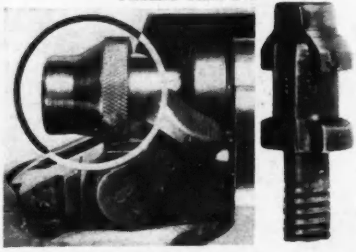

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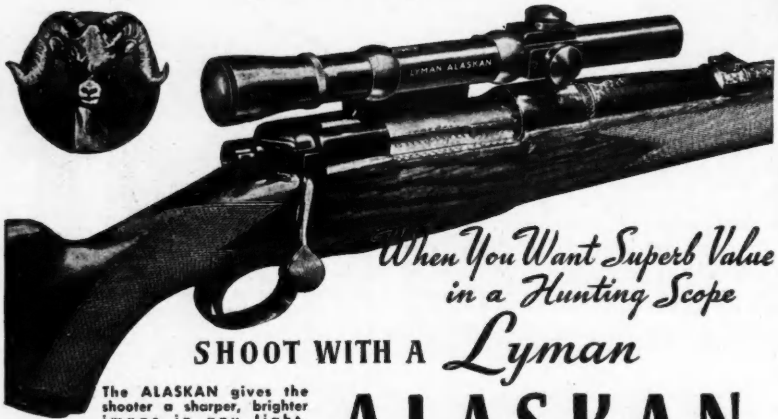

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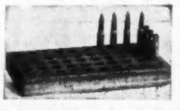

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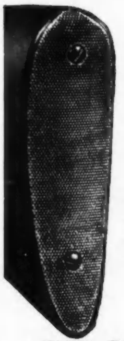

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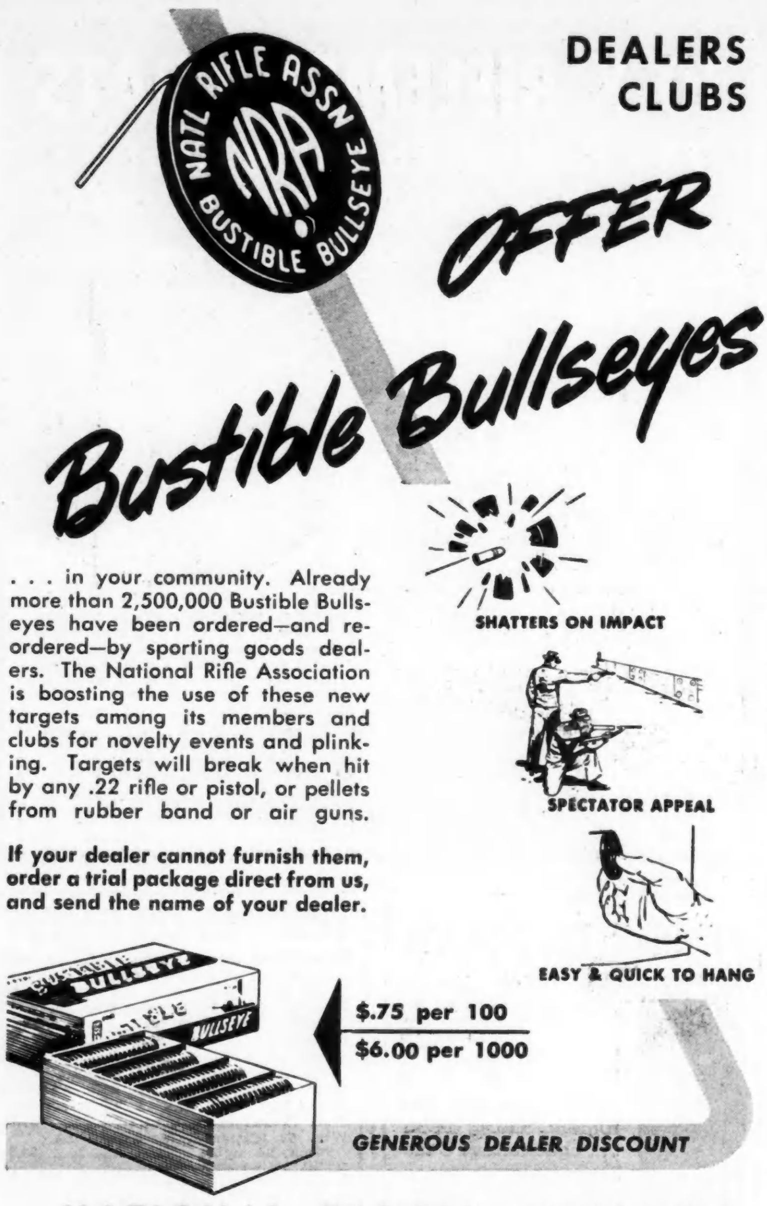

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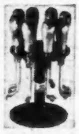

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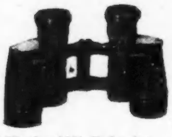

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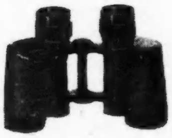

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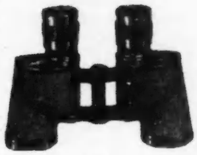

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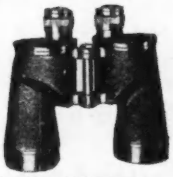

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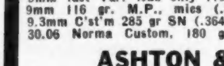

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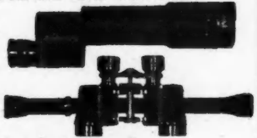

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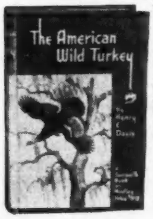

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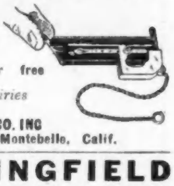

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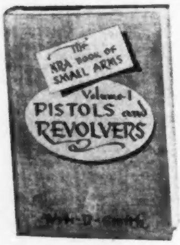

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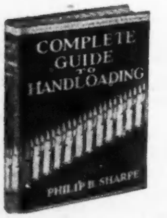

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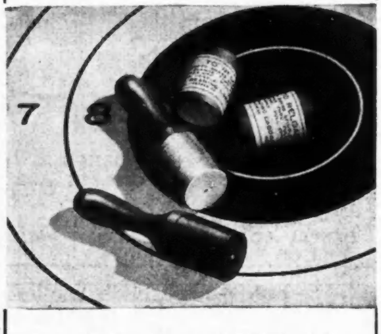

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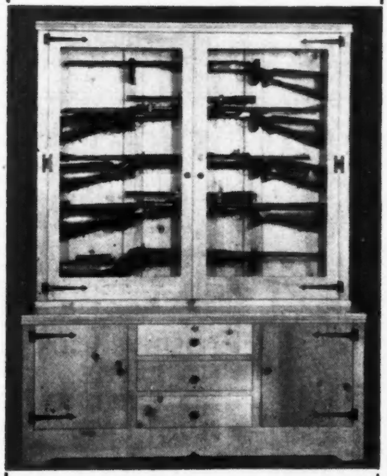

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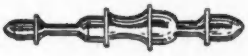

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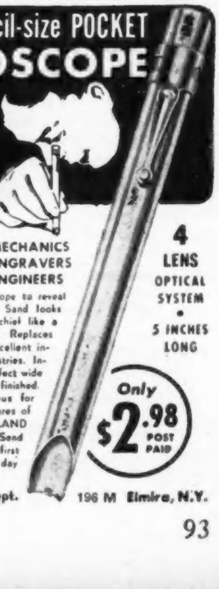

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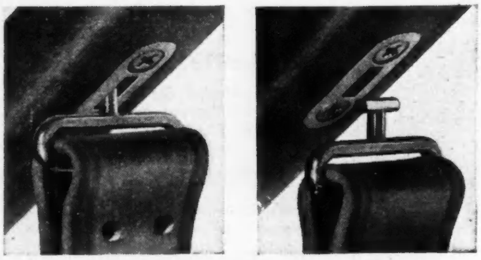

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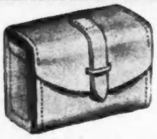

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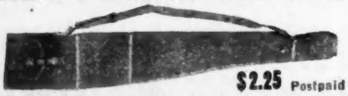

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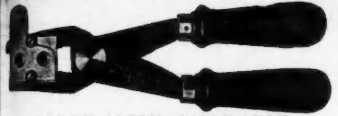

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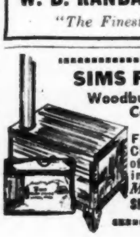

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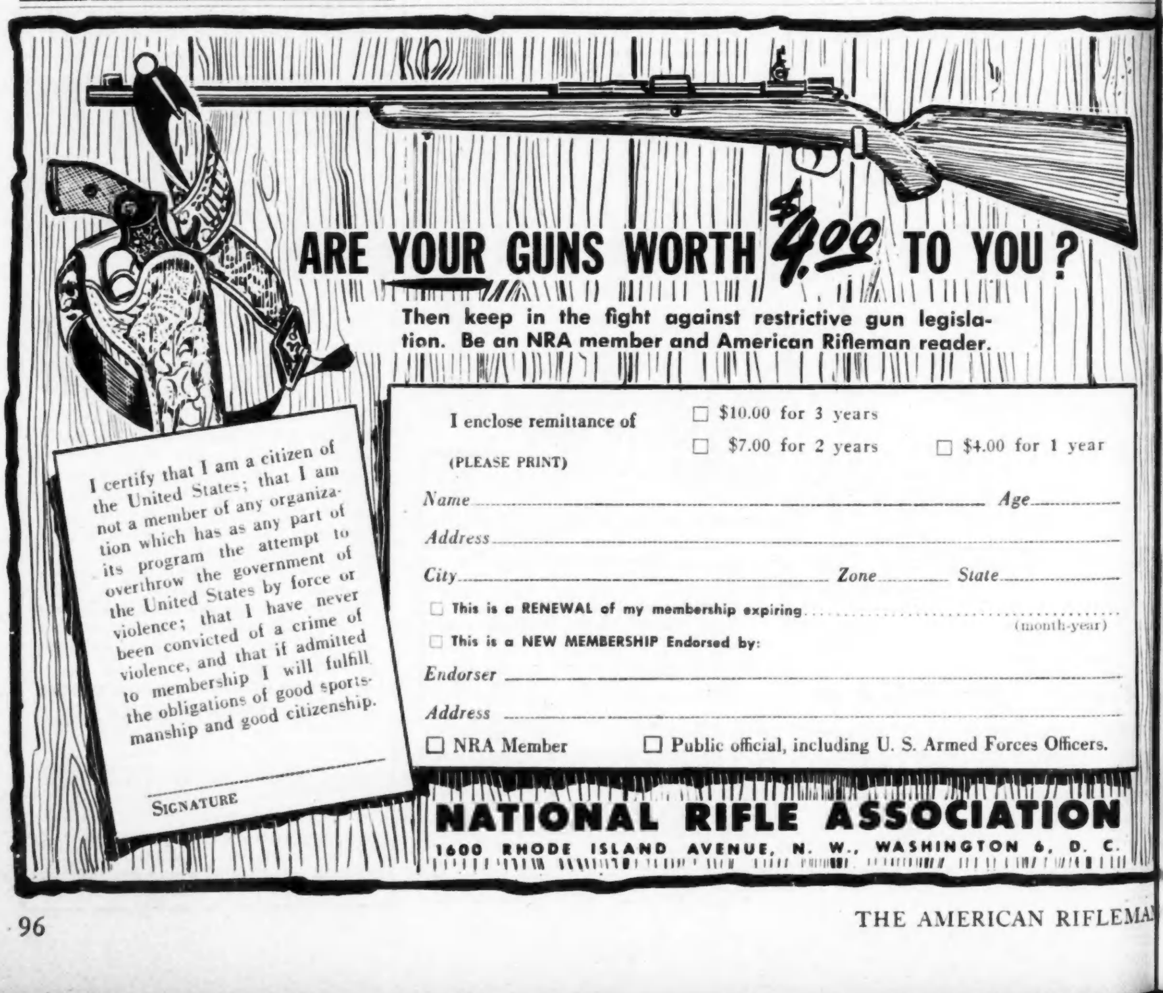

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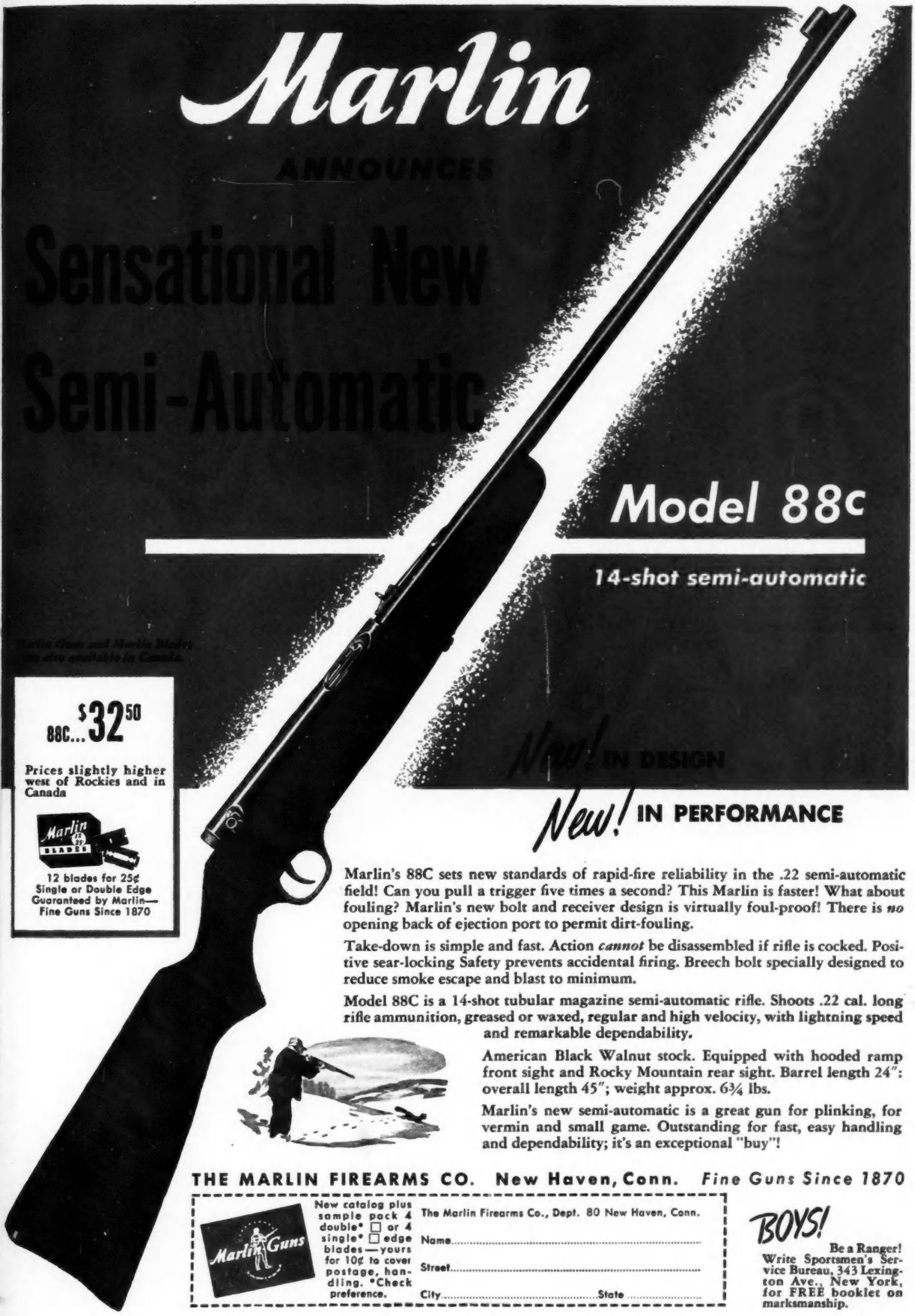

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